

CA20N  
EV 660

W165  
C.2

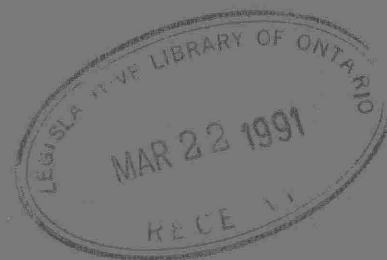
WATER QUALITY DATA  
ONTARIO LAKES AND STREAMS  
1987  
  
VOLUME XXIII  
  
SOUTHWESTERN REGION

FEBRUARY 1991



Ontario

Environment  
Environnement





### Copyright Provisions and Restrictions on Copying:

This Ontario Ministry of the Environment work is protected by Crown copyright (unless otherwise indicated), which is held by the Queen's Printer for Ontario. It may be reproduced for non-commercial purposes if credit is given and Crown copyright is acknowledged.

It may not be reproduced, in all or in part, for any commercial purpose except under a licence from the Queen's Printer for Ontario.

For information on reproducing Government of Ontario works, please contact ServiceOntario Publications at [copyright@ontario.ca](mailto:copyright@ontario.ca)

ISBN 0843-5847

WATER QUALITY DATA FOR ONTARIO LAKES AND STREAMS

1987

VOLUME XXIII

SOUTHWESTERN REGION

Report prepared by:

S. Harangozo  
Water Resources Branch  
Ontario Ministry of the Environment

FEBRUARY 1991



Cette publication technique  
n'est disponible qu'en anglais

Copyright: Queen's Printer for Ontario, 1991  
This publication may be reproduced for non-commercial purposes  
with appropriate attribution

log 90-2309-038  
PIBS 1304

Copyright: Queen's Printer for Ontario, 1990

Additional copies of this publication may be obtained by contacting the Ontario Ministry of the Environment Public Information Centre, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P3. Telephone (416) 323-4321.

Permission to republish must be obtained in writing from:

The Director  
Water Resources Branch  
Ontario Ministry of the Environment  
135 St. Clair Avenue West  
Toronto, Ontario M4V 1P5

Parts of this publication may be quoted if credit is given. It is recommended that reference to this volume be made in the following form:

Ontario Ministry of the Environment, 1990. Water Quality Data Ontario Lakes and Streams, 1987, Volume XXIII, Southwestern Region.

Every possible effort is made to ensure the accuracy of the information contained in this publication. Verification of any suspect data may be obtained by contacting the Watershed Management Section, Water Resources Branch, Toronto, Ontario (323-4822).

## TABLE OF CONTENTS

|  | <u>Page</u> |
|--|-------------|
| INTRODUCTION .....   | V           |
| INTERPRETATION OF DATA   |             |
| A. Analyses and Measurements Conducted at the<br>Sampling Site .....                           | XI          |
| B. Analyses and Measurements Conducted at the<br>Laboratory .....                              | XVIII       |
| 1) Microbiological Analyses .....  | XVIII       |
| 2) Chemical and Physical Analyses .....  | XIX         |
| 3) Radiochemical Analyses .....  | XXXV        |
| 4) Synthetic Organic Analyses .....  | XXXIX       |
| STATION IDENTIFIER CODES, ABBREVIATED PARAMETER<br>HEADINGS AND QUALIFYING REMARKS CODES ..... |             |
|  | XLII        |
| OTHER ABBREVIATIONS .....  | LII         |
| ANALYTICAL TECHNIQUES USED TO MEASURE WATER QUALITY .....                                      | LIV         |
| GLOSSARY OF TERMS .....  | LVI         |
| SELECTED REFERENCES .....  | LVII        |
| ABBREVIATIONS AND REMARKS USED ON REPORTS .....  | LVIII       |
| WATER QUALITY DATA .....   | 1           |
| SAMPLING STATION DIRECTORY (ALPHABETICAL INDEX).....   | 318         |

## LIST OF FIGURES

| <u>FIGURES</u>  | <u>Page</u> |
|---|-------------|
| 1. Regions and Offices in Ontario - Ministry of the Environment | VI          |
| 2. Southern Ontario Terminal Basins .....                       | VIII        |
| 3. Northern Ontario Terminal Basins .....                       | IX          |
| 4. Network Index Map of Southern Ontario .....                  | XII         |
| 5. Network Index Map of Northern Ontario .....                  | XIII        |
| 6. Southwestern Region Network MAP SW-1 .....                   | XIV         |
| 7. Southwestern Region Network MAP SW-2 .....                   | XV          |
| 8. Southwestern Region Network MAP SW-3 .....                   | XVI         |

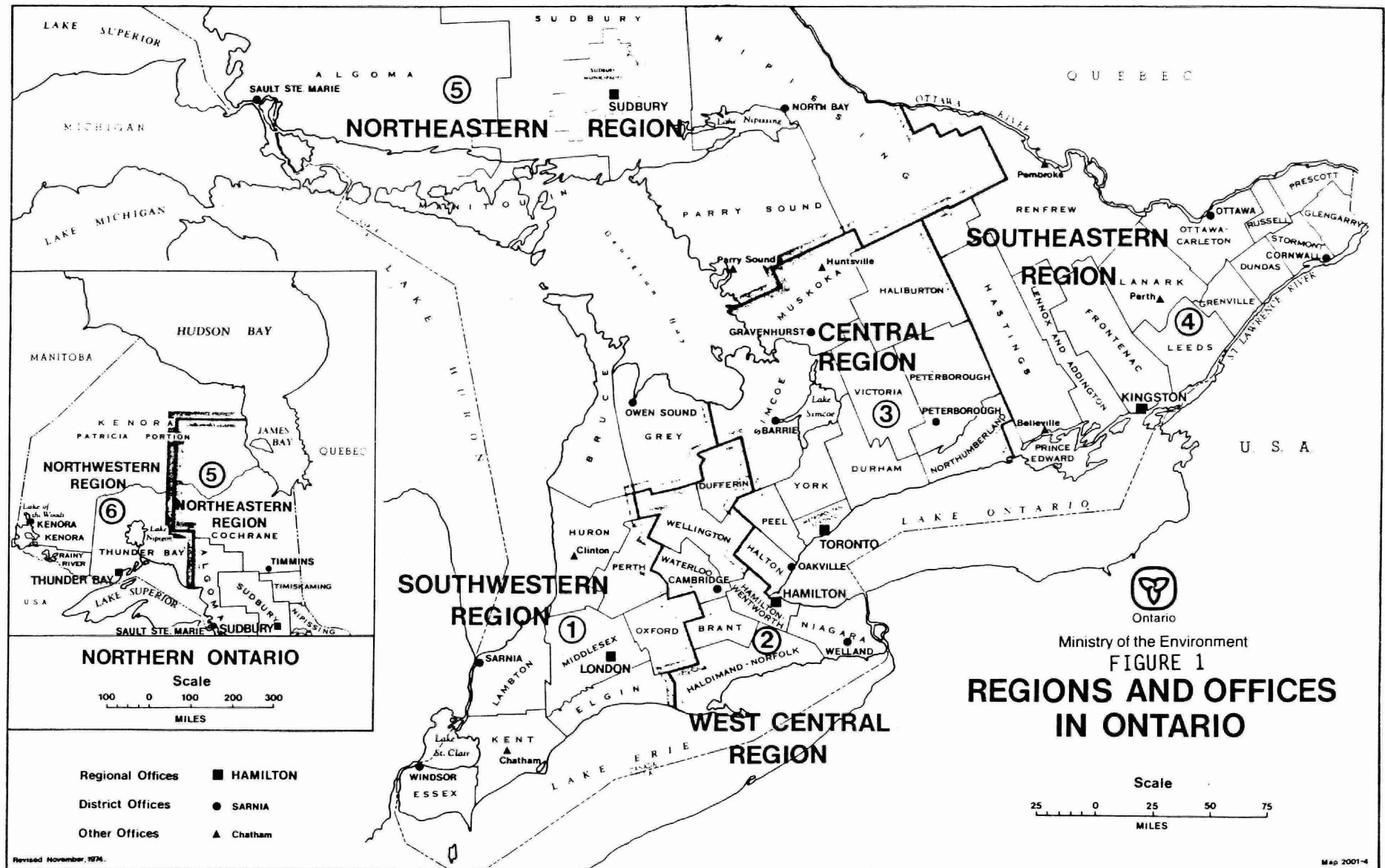
## INTRODUCTION

"Water Quality Data Ontario Lakes and Streams, Volume XXIII, 1987, Southwestern Region", is one of an ongoing series published by the Water Resources Branch of the Ontario Ministry of the Environment. The data presented in this publication were collected by the Water Resources Assessment Units of this Ministry's six Regional Offices (Figure 1) with the assistance of local Conservation Authorities. The information provided in this publication is compiled and published by the Watershed Management Section of the Water Resources Branch. The data result from a routine sampling program designed to provide a long-term record of the water quality information at specific points on rivers and inland lakes in Ontario.

Sampling station locations have been selected to meet one or more of the following requirements: (1) to measure quantitatively and qualitatively the materials discharged from tributary streams to the terminal basins; (2) to monitor the effects of wastewater discharges on a watercourse; (3) to provide data that can be considered generally representative of water quality conditions in a certain area.

The information is used by the Ontario Ministry of the Environment to maintain surveillance over water quality and to provide supporting data used in the analysis and prediction of water quality for planning and other purposes. The data are also made available to any person or agency concerned with the quality of Ontario's rivers and lakes. The booklet "Water Management Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment", 1978 (Revised May, 1984) outlines the current policies for water management in Ontario.

Samples are analysed for some or all of the following parameters: counts of total and fecal coliforms, enterococci, *Pseudomonas aeruginosa* and *escherichia* coliforms, concentrations of biochemical oxygen demand, total



Ministry of the Environment  
**FIGURE 1**  
**REGIONS AND OFFICES**  
**IN ONTARIO**

**Scale**  
 25 0 25 50 75  
 MILES

phosphorus, filtered reactive phosphate, filtered ammonia, total Kjeldahl nitrogen, filtered nitrite and nitrate forms of nitrogen; total suspended and dissolved solids; levels of conductivity and turbidity; concentrations of chlorides, sulphates, unfiltered reactive silicates, acidity, alkalinity; units of pH; concentrations of total iron, phenols, hardness, calcium, magnesium; units of colour; concentrations of potassium, sodium, total organic carbon, chemical oxygen demand, solvent extractables, arsenic, mercury, aluminium, chromium, copper, lead, cadmium, zinc, manganese, nickel, fluoride, cyanide and cobalt.

In addition, radiochemical analyses are conducted on selected samples and the results are expressed as levels of ionizing radiation (i.e. the number of nuclear disintegrations per second). Selected samples are analysed for some or all of the following radiochemical parameters: gross alpha, gross beta, radium-226, total uranium, cesium-137, cesium-134, cobalt-60, tritium and iodine 131.

Some samples are also analysed for some or all of the following synthetic organic parameters: concentrations of PCB, PCP and 2,4,5-T.

The water quality monitoring program commenced in July 1964 in Southern Ontario and currently consists of a total of 754 stations throughout Ontario. The following maps (figures 2 and 3) show the Southern and Northern Ontario Terminal Basins which are used to identify the sampling station locations. Definitions or brief descriptions are provided for the more common parameters of pollution under the section entitled Interpretation of Data.

Other water quality monitoring programs such as Drinking Water Quality Monitoring Program and the Sport Fish Contaminant Monitoring Program which is co-ordinated by the Ontario Ministries of Natural Resources, Environment and Labour are not discussed in this publication. A summary of health implications of contaminants in fish with a listing of test results from each fish sampling location can be found in the Ministry publication, "Guide to Eating Ontario Sport Fish." This publication is updated annually and is



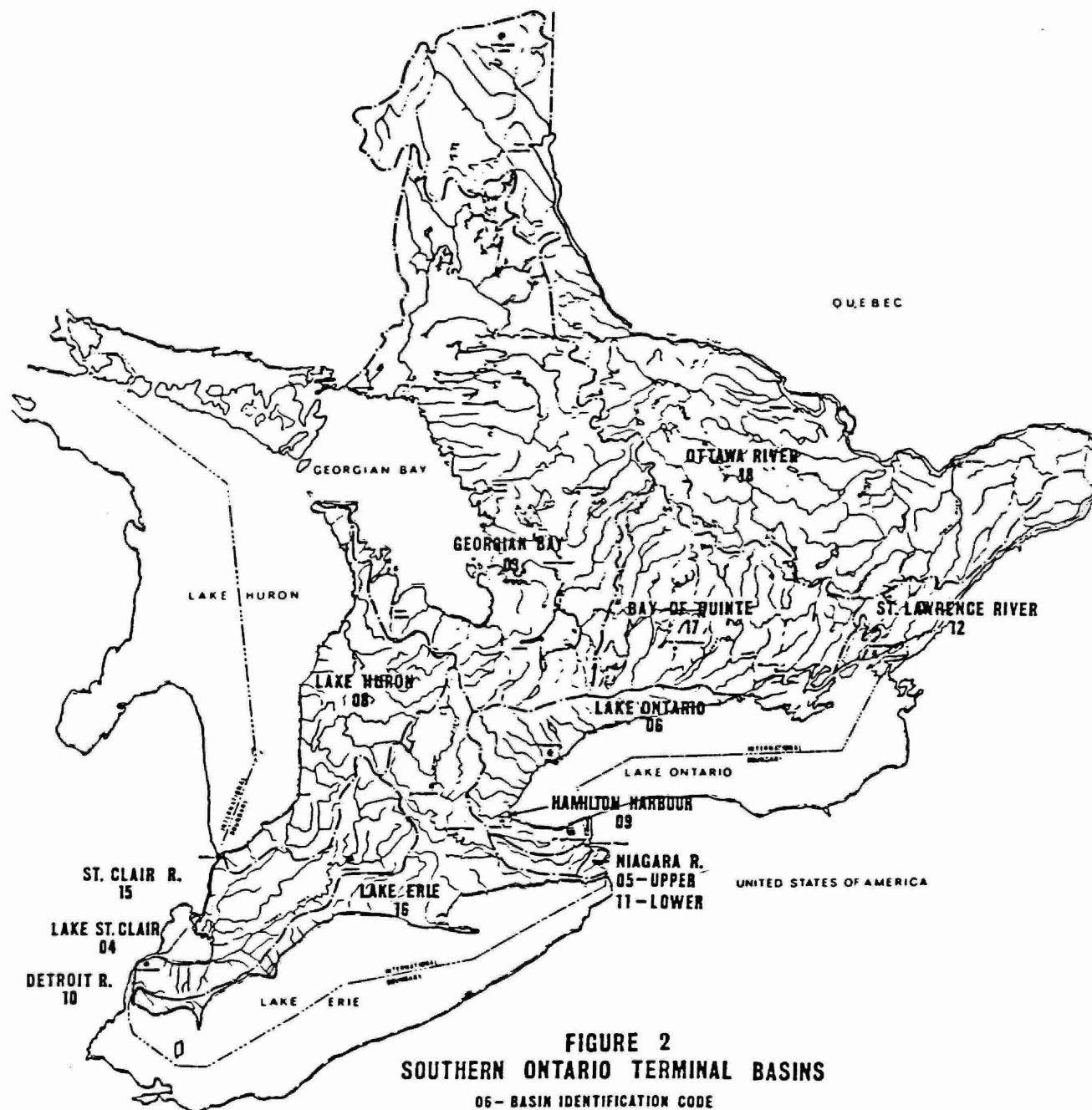
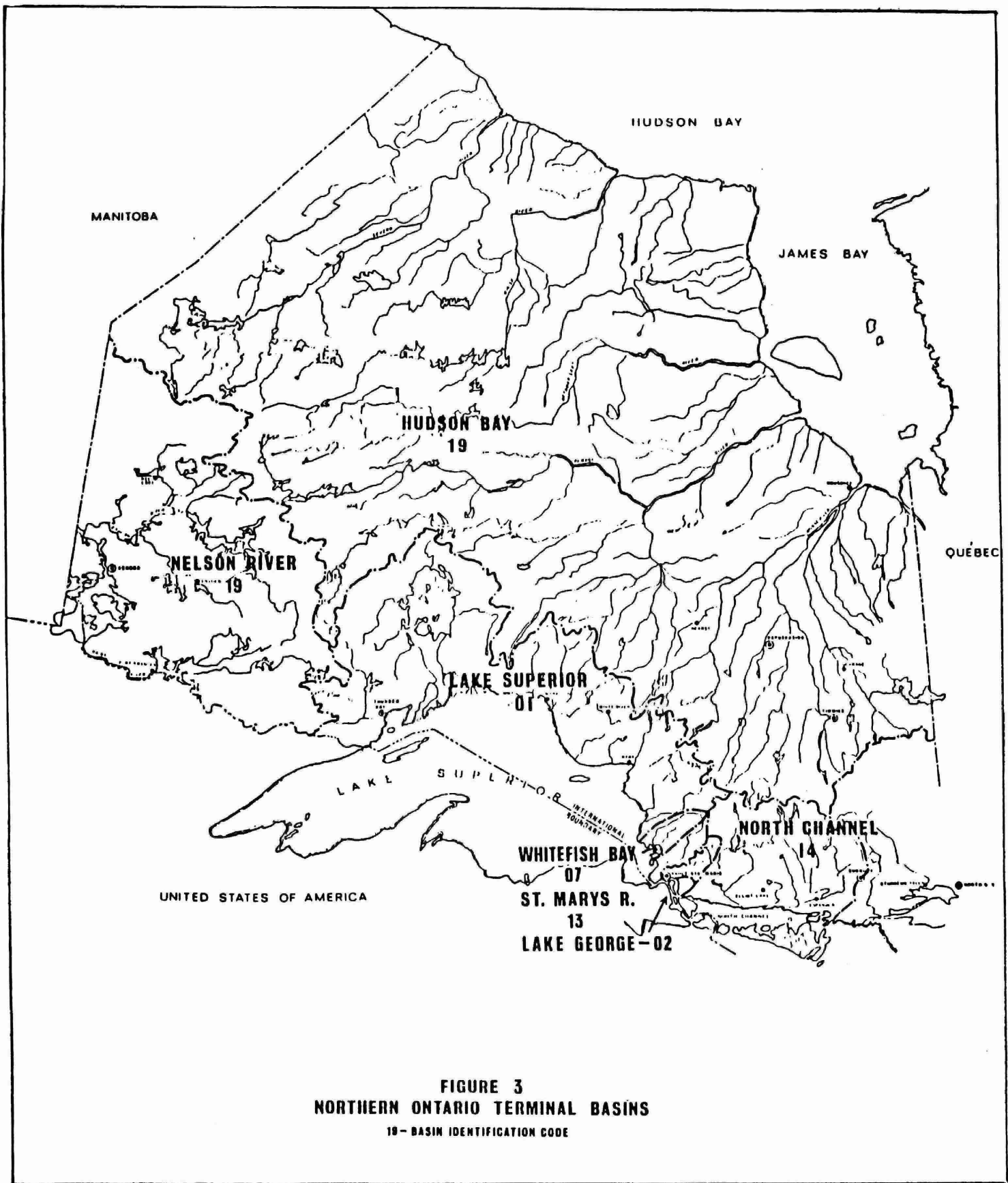


FIGURE 2  
SOUTHERN ONTARIO TERMINAL BASINS

06 - BASIN IDENTIFICATION CODE



**FIGURE 3**  
**NORTHERN ONTARIO TERMINAL BASINS**  
 19 - BASIN IDENTIFICATION CODE

available free of charge from the Ministry of the Environment, Water Resources Branch, 135 St. Clair Avenue West, Toronto Ontario, M4V 1P5, telephone (416) 323-4994.

The streamflow station network in Ontario is not discussed in this publication. Whenever streamflow data exists at tributary locations which are coincident with the water quality monitoring station locations, data on mean daily discharges are reported along with the water quality data. The collection of hydrometric data in Ontario has been carried out under a Memorandum of Agreement between the Government of Canada and the Province Ontario since April, 1975. The Province of Ontario is represented in the Agreement by the Ministry of the Environment, the Ministry of Natural Resources and Ontario Hydro. These agencies meet at regular intervals with the Water Survey of Canada to administer the Agreement. Streamflow data for Ontario are published annually as surface water data by the Federal Government.

### NETWORK MAP SHEETS

Individual station locations are identified on specially prepared network maps. These network maps have been drawn to conform approximately to the boundaries of the Ministry's Regions, and are grouped according to Regions. Two index maps (Figures 4 and 5) illustrate individual map sheet coverages within the Province.

The following procedures were used in the preparation of the maps. Individual base maps within a Region were assembled using the National Topographic Series maps at a scale of 1:250,000. In northern Ontario, this was reduced to a scale of 1:500,000 in the Lake Superior and Nelson River basins, and to a scale of 1:2,000,000 in the Hudson Bay basin. For each base map, an overlay of the river systems was prepared, showing major

watershed and Ministry of the Environment Regional boundaries. Numeric terminal basin and stream codes were added, and active water quality monitoring stations were located on each overlay and referenced with station numbers. The overlays were then reduced to approximately 40% of their original size for purposes of this publication.

The previously-mentioned terminal basin and stream code, when combined in sequence with a given station number, together form a unique station identifier which appears as the "Station ID". The "Station ID" is listed for all active monitoring stations in the "Sampling Station Directory", an alphabetical listing of terminal streams monitored in Southwestern Region (See Sampling Station Directory).

The location of stations in the Southwestern Region are shown in figures 6, 7, and 8. The locations of the other stations in the other regions and in other parts of Ontario such as those located on the Great Lakes or those operated by the Water Quality Branch, Ontario Region, Environment Canada, are not included.

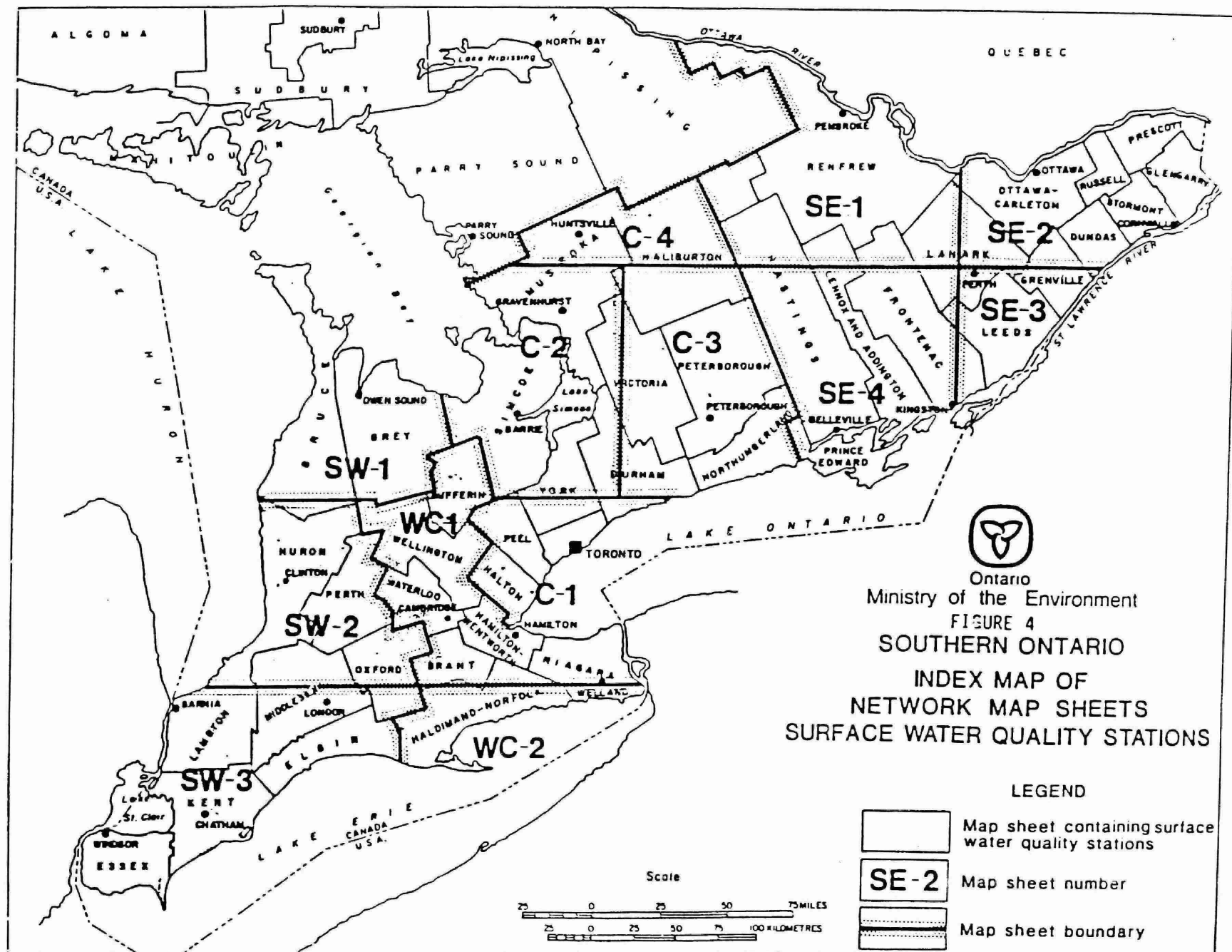
## **INTERPRETATION OF DATA**

The definition of the parameters measured in the Provincial Water Quality Monitoring Program are listed in the following pages. The significance of each measurement in regard to specific water uses can be determined by referring to the booklet "Water Management, Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment, November, 1978". (Revised, May 1984)

### **A. ANALYSES AND MEASUREMENTS CONDUCTED AT THE SAMPLING SITE**

#### **Stream Condition**

The physical condition of the body of water is described from an on-site examination at the time of sampling and is represented by a one-digit number from one to zero as follows:





MINISTRY OF THE ENVIRONMENT  
Water Resources Branch

FIGURE 6  
SURFACE WATER  
QUALITY NETWORK  
1987

MAP SW-1  
Southwestern Region



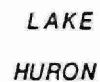
### LEGEND

**19** Terminal Basin Code

**0123** Terminal Stream Code (shown at the most downstream point of the stream)

**12** Station Number

- Water Quality Station
- Terminal Basin Boundary
- Watershed Boundary
- MOE Regional Boundary



08

Miller,

7. 2

0144

0143

03

08

16

SEE INSET 'A'

0143

0135

0017

001

Q016

0030

~~200~~

0123

0113

44

44

2



1

3

2

1



1

910

1

[illegible]



FIGURE 7

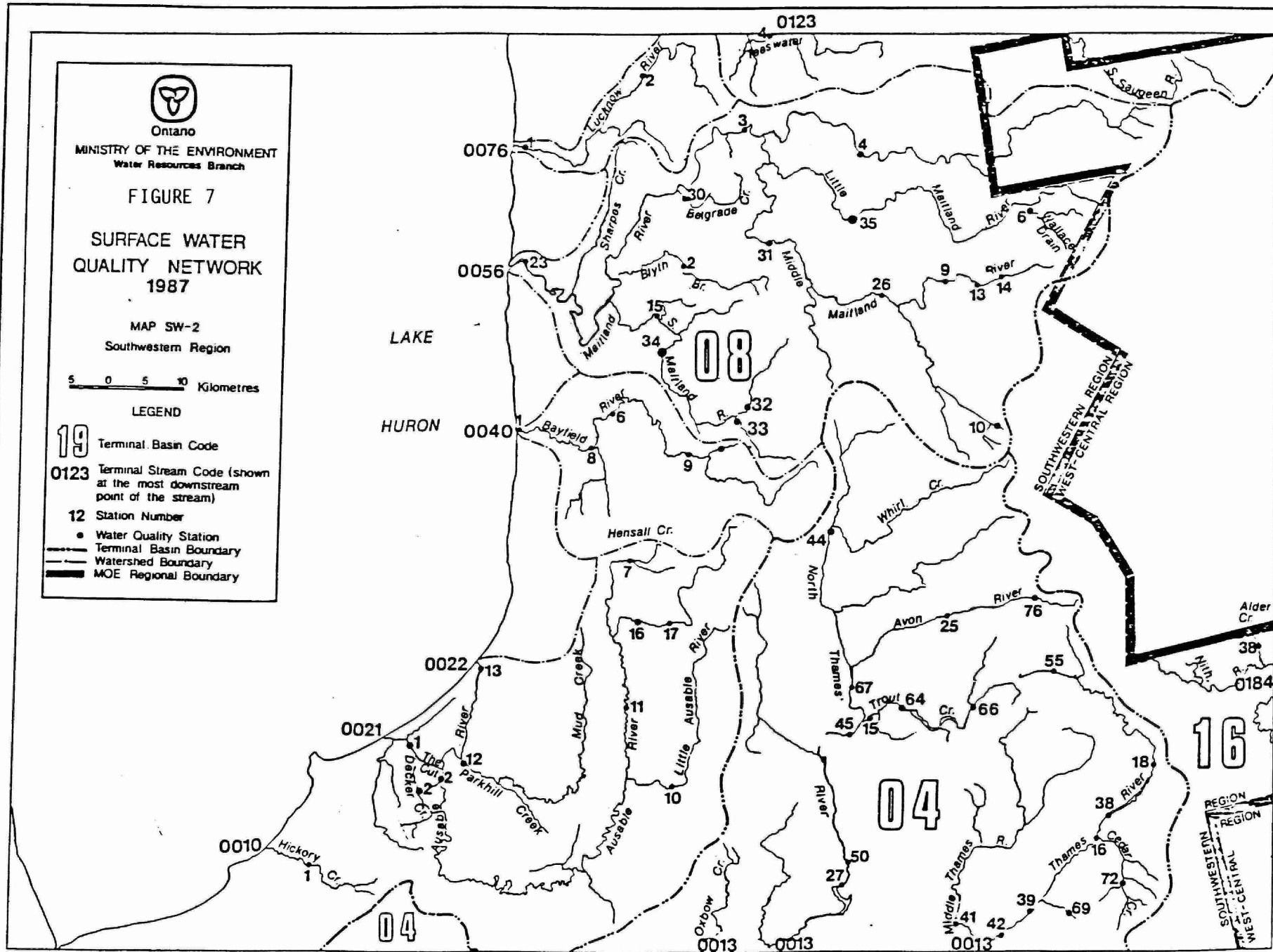
**SURFACE WATER  
QUALITY NETWORK  
1987**

MAP SW-2  
Southwestern Region

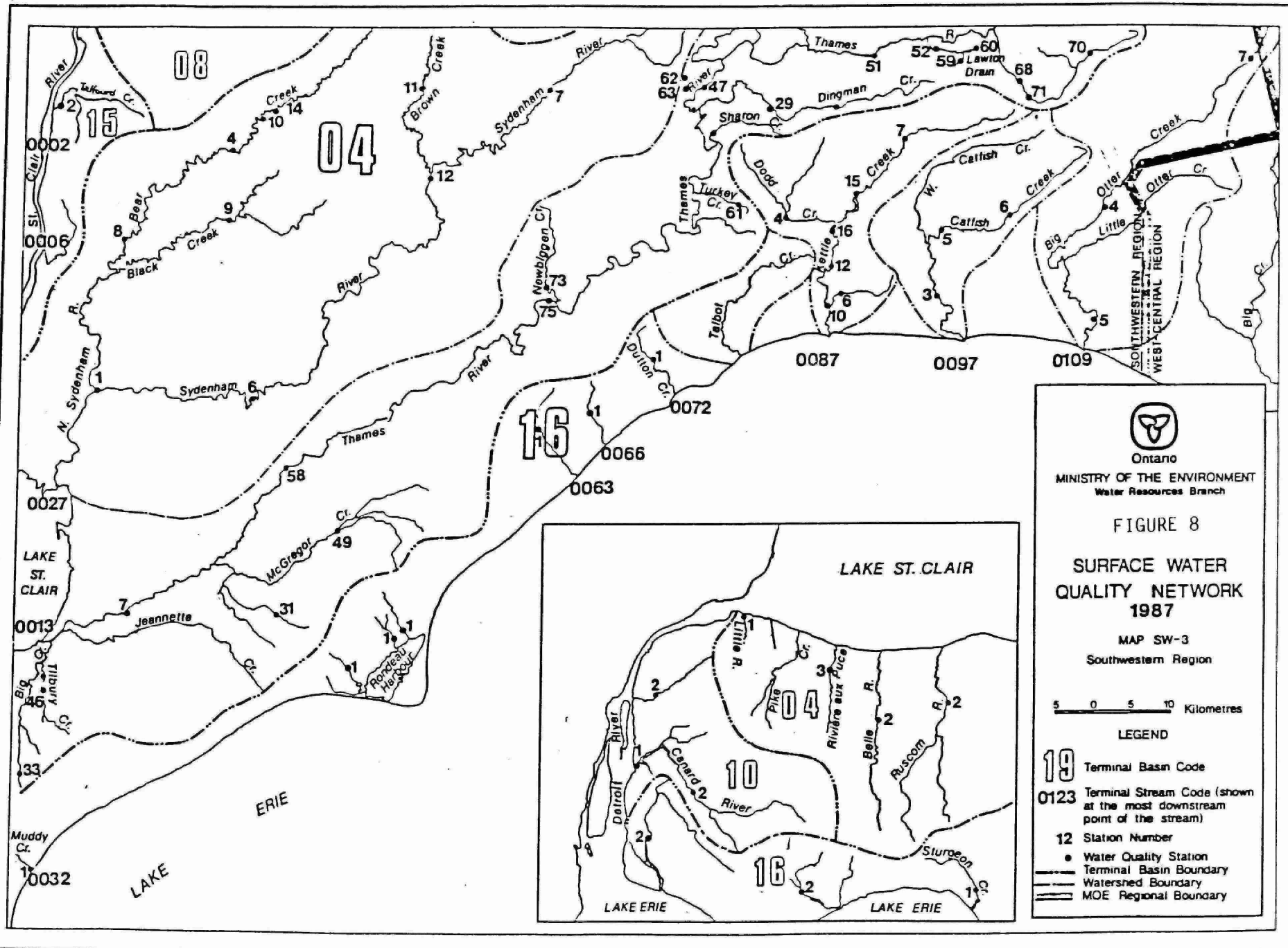
A horizontal scale bar with tick marks at 0, 5, and 10. The word "Kilometres" is written to the right of the bar.

### LEGEND

- 19** Terminal Basin Code
- 0123** Terminal Stream Code (shown at the most downstream point of the stream)
- 12** Station Number
- Water Quality Station
- Terminal Basin Boundary
- Watershed Boundary
- MOE Regional Boundary








  
 Ontario  
 MINISTRY OF THE ENVIRONMENT  
 Water Resources Branch

FIGURE 8  
 SURFACE WATER  
 QUALITY NETWORK  
 1987  
 MAP SW-3  
 Southwestern Region

5 0 5 10 Kilometres

LEGEND  
 19 Terminal Basin Code  
 0123 Terminal Stream Code (shown at the most downstream point of the stream)  
 12 Station Number  
 • Water Quality Station  
 — Terminal Basin Boundary  
 — Watershed Boundary  
 — MOE Regional Boundary

1. Stream dry
2. Frozen to stream bed
3. Stream in flood condition
4. Sampled through ice
5. Suspended algae
6. No apparent algae
7. Profuse weed growth
8. Normal
9. Oil scum or floating matter
0. Objectionable odours

Under some circumstances a combination of up to three of the above conditions may be shown for a given sample at an individual station.

### **Streamflow**

Streamflow information at or near a water quality monitoring site is an important factor when interpreting and employing water quality data. The product of streamflow and concentration defines the mass of material passing a point. Streamflow is also a useful reference when comparing water quality data for different periods of the year (e.g., spring flood versus summer drought).

Flows in many of the streams sampled are measured by the Water Survey of Canada, Inland Waters Directorate, Environment Canada.

### **Temperature**

Water temperature is an important factor when a number of water quality parameters are being evaluated. Temperature directly affects the solubility of gases (e.g., dissolved oxygen) and significantly affects biological and chemical reaction rates.

Temperature is measured at the sampling site with an electronic thermistor or a mercury thermometer.

## **Dissolved Oxygen**

Dissolved oxygen in water originates directly from the atmosphere or through photosynthesis in aquatic plants. Ample dissolved oxygen is necessary to maintain satisfactory conditions for fish and other biological life in water. Organic wastes and some inorganic materials exert, upon decomposition, an oxygen demand which may deplete the dissolved oxygen below levels required by aquatic life.

Dissolved oxygen is measured at the sampling site with an electronic meter or by a chemical titration.

## **B. ANALYSES AND MEASUREMENTS CONDUCTED AT THE LABORATORY**

### **1. MICROBIOLOGICAL ANALYSES**

#### **Total Coliform**

The Membrane Filter (MF) technique is used to obtain an approximation of the concentration of total coliform organisms. These organisms are normal inhabitants of soils and the intestines of man and other warm-blooded animals. They are always present in large numbers in sewage and fecal matter, and are often found in watercourses adjacent to industrial, agricultural and other pollution sources.

Results are reported as MF count per 100 mL of sample.

#### **Background Count**

The background count estimates the number of organisms, other than coliforms, that occur in the total coliform analysis of a sample. The results are used in the interpretation of total coliform counts. High background counts are generally indicative of poor water quality.

## Fecal Coliform and Fecal Streptococcus (Enterococcus) Organisms

Fecal coliform and Enterococcus organisms are generally found in the alimentary tract of warm-blooded animals. They are indicative of sanitary waste intrusion and/or fecal contamination from warm-blooded animals.

### Pseudomonas aeruginosa

Pseudomonas aeruginosa are pathogens found in sewage that can be readily isolated. These organisms are sometimes found in bathing waters and are the major pathological agent in otitis externa (earaches) and skin infections.

### Escherichia Coliform (E. Coli)

E. Coli is the predominant, facultative bacterial species in the large bowel and is thus the coliform most directly related to fecal pollution. E. Coli is occasionally pathogenic to man (e.g., urinary tract infections) but is primarily an indicator organism in water bacteriology.

## 2. CHEMICAL AND PHYSICAL ANALYSES

### Biochemical Oxygen Demand (BOD)

In itself, BOD is not a pollutant and presents no direct harm to the aquatic environment. It is, however, a measure of the unstable organic matter present in water which, through aerobic decomposition, oxidizes to a stable inorganic form utilizing the oxygen resources of a watercourse. The level of BOD is an important parameter in assessing the potential concentrations of dissolved oxygen in water.

Five-day biochemical oxygen demand ( $BOD_5$ ) is a laboratory measurement of the amount of oxygen consumed in a sample incubated for five days at 20°C.

## **Total Phosphorus**

Phosphorus is a primary nutrient for plant and animal life and like nitrogen passes through cycles of decomposition and photosynthesis. This element is commonly found in nature in the form of inorganic phosphates and organically bound phosphorus. Total phosphorus includes orthophosphate, condensed phosphates and organically bound phosphorus in both the dissolved and particulate form. Untreated or treated sewage, some industrial wastes and agricultural and urban drainage contain significant concentrations of phosphorus.

Although there is no firm criterion for phosphorus, it is generally considered that to eliminate excessive plant growths in rivers and streams, total phosphorus should not exceed 0.03 mg/L. To avoid nuisance concentrations of algae in lakes, average total phosphorus concentrations for the ice-free period should not exceed 0.02 mg/L.

## **Filtered Reactive Phosphate**

Filtered reactive phosphate is that phosphorus which passes through a 1-2 micrometre filter and responds to a colorimetric orthophosphate determination. It is a combination of simple orthophosphate and readily hydrolyzed phosphate primarily in the dissolved form.

Filtered reactive phosphate is generally considered to be readily available for aquatic plant growth.

## **Filtered Ammonia Nitrogen**

Filtered ammonia nitrogen (ammonia  $\text{NH}_3$  and ammonium  $\text{NH}_4^+$ ) is the soluble product in the anaerobic decomposition of nitrogenous organic matter. It is also formed when nitrites and nitrates are reduced either biologically or chemically. Small amounts of ammonia nitrogen may be taken out of the atmosphere by rain water.

### Total Kjeldahl Nitrogen

Total Kjeldahl nitrogen is a measure of the total nitrogenous matter present, excluding nitrate and nitrite. The total Kjeldahl nitrogen concentration, less the ammonia nitrogen concentration, gives a measure of the organic nitrogen present.

Ammonia and organic nitrogen are important in assessing the availability of nitrogen for biochemical utilization.

### Filtered Nitrite

Nitrite is an intermediate oxidation product of ammonia and also an intermediate form in the denitrification process from nitrate to nitrogen gas. The significance of nitrites, therefore, varies with their amount, source and relation to other constituents of samples (notably the relative magnitude of ammonia and nitrate present).

Since nitrite is rapidly and easily converted to nitrate, its presence in concentrations greater than a few micrograms per litre is generally indicative of active biological processes in the water.

### Filtered Nitrate

Nitrate is the end product of the stabilization of organic nitrogen which occurs primarily through aerobic biochemical processes. Nitrate is usually found in polluted waters that have undergone some degree of self-purification. Nitrates can also occur in watercourses intercepting drainage from fertilized agricultural areas.

Nitrogen in the form of nitrate is readily utilized by aquatic plants and algae.

### Inorganic Nitrogen

Inorganic nitrogen is a calculated value and represents the sum of the concentrations of filtered ammonia nitrogen and filtered (nitrate plus nitrite) nitrogen.

### Organic Nitrogen

Organic nitrogen is a calculated value and represents the difference between the concentrations of total Kjeldahl nitrogen and filtered ammonia nitrogen.

### Total Nitrogen

Total nitrogen is a calculated value and represents the sum of the concentrations of total Kjeldahl nitrogen and filtered (nitrate plus nitrite) nitrogen. Nitrogen is a common constituent of decomposition products, treated sewage, fertilizers and industrial discharges. Nitrogen compounds are present in most plant and animal materials.

### Solids

Total solids, suspended and dissolved solids are presented as separate parameters in this report. The solids analyses are gross measurements of the amounts of particulate matter and dissolved materials found in water. Solids enter the watercourse from virtually every source, the most familiar being sewage treatment plant effluents, municipal storm drainage, industrial discharges and soil erosion.

Solids significantly affect water uses. Highly turbid water is undesirable for municipal and industrial supply, fish and aquatic life, recreation and aesthetics. Suspended solids can also transport significant quantities of organic and inorganic trace contaminants.

### **Conductivity**

The conductivity test provides a measure of the electrolytic properties of water. The presence of dissolved ions (in solution) such as chlorides, sulphates and calcium, renders water conductive. Conductance, the reciprocal of resistance, is recorded in the unit mho and in order to avoid inconvenient decimals, data are reported in micromhos per cubic centimetre. In many waters there is a direct linear relationship between dissolved solids concentrations and conductivity.

Conductivity serves as a control parameter and is an excellent indicator of water-quality changes since it is relatively sensitive to variations in dissolved-solids concentrations.

### **Turbidity**

The turbidity of water is attributable to suspended and colloidal matter such as micro-organisms, detritus, clay and other mineral substances which reduce clarity and diminish the penetration of light.

Turbidity is undesirable in surface waters used for domestic and industrial supply and for recreation. Often some of the suspended matter has to be removed to prevent interference with disinfection processes and abrasion to equipment. By interfering with the penetration of light, turbidity can seriously affect aquatic biological communities.

### **Chlorides**

Chlorides are found in practically all natural waters. They may be of natural mineral origin but in general the largest contributions can be traced to domestic sewage discharge, municipal storm drainage, road salting, and industrial wastes.



While not harmful to health in moderate quantities, high concentrations of chlorides make water unfit for municipal and industrial supplies and livestock watering. In addition to imparting an objectionable taste to water, high chloride levels are responsible for increased corrosiveness of water. Furthermore, chloride, being toxic to many plants, may render water undesirable for irrigation.

### **Sulphate**

Sulphates may occur naturally in waters and may be contained in industrial wastes. They are produced from the final oxidation stage of sulphides, sulphites and thiosulphates. Sulphates, under anaerobic conditions, can be reduced to hydrogen sulphide which is malodorous (the odour of rotten eggs) and highly corrosive.

### **Sulphide**

Sulphide is formed by bacterial reduction of sulphate and organic sulphur compounds under anaerobic conditions. It is therefore, commonly found in domestic wastewater, industrial wastewater, sludges, hypolimnions of stratified lakes and any other aquatic systems where anaerobic conditions prevail. As a result, concentrations in surface waters are negligible.

### **Unfiltered Reactive Silicate**

Silicon occurs in sand or quartz as silica and as silicates in feldspar, kaolinite and other minerals. Silicon dioxide, or silica, is insoluble in waters or acids, except hydrofluoric acid, but it may occur in natural waters as finely divided or colloidal suspended matter. Silica is widely employed in industry for making glass, silicates, ceramics, abrasives, enamels, petroleum products.

In concentrations found in natural and treated waters, silica or silicates have no adverse physiological effects. Silicates are essential to the growth of many aquatic organisms.

The data which appear under the heading "Reactive Silicate" should properly be referred to as "Unfiltered Reactive Silicate" and are reported as Silicon (Si). Data in this series of publications prior to 1975 were reported as Silica ( $\text{SiO}_2$ ).

### Acidity

Acidity in surface or ground waters may be attributable to natural causes, such as humic acids extracted from swamps or peat beds, or industrial wastes such as pickling liquors, effluent from the manufacture of explosives, acid mine drainage or sulphite waste liquors. It may also be affected by atmospheric inputs.

Acidity is best interpreted in conjunction with the pH and alkalinity, as well as any other analyses which identify the acidic components of water.

### Alkalinity

Alkalinity is a measure of a waterbody's capacity to neutralize an acid. The alkalinity of natural waters is caused by three major classes of materials which may be ranked in order of their effect on pH as follows:

1. Hydroxides (rarely present in Ontario)
2. Carbonates
3. Bicarbonates and other salts of weak acids

The alkalinity of water has little sanitary significance but is of importance in water and waste treatment practices. Waters with high alkalinity under natural conditions are undesirable because of their associated excessive hardness.

## pH

The symbol pH is used to designate the logarithm (base 10) of the reciprocal of the hydrogen-ion concentration. It is an index of the acidity or alkalinity of the solution. The practical pH range extends from 0, very acidic, to 14, very alkaline, with the middle value of pH 7 corresponding to exact neutrality at 25°C.

The pH is important in determining the appropriate treatment of water supplies.

## Iron

Iron is one of the most abundant elements in the earth's crust and it is a constituent of many industrial wastes.

When sufficient iron is added to water in the form of salts (chlorides, nitrates, sulphates), ferrous to ferric precipitates (iron hydroxides) tend to form, causing low pH values which are toxic to aquatic life. Iron in water may also result in the growth of iron bacteria causing unpalatable taste, discolouration of cloths and plumbing fixtures, and the formation of scales in water mains.

## Phenols

The phenolic compounds, collectively referred to as phenols, are those hydroxyl derivatives of benzene or its condensed nuclei, which are determined by the 4-amino antipyrine method. The results are reported from many industrial processes and may also be released from aquatic plants and decaying vegetation.

Depending on the concentration, the presence of phenolic compounds may be toxic to fish, and may taint the flesh of fish. Phenols in very minute concentrations will combine with chlorine to produce tastes and odours which are usually described as medicinal or chemical.

## Hardness

Water hardness relates to a water's capability to produce lather from soap. The higher the hardness, the less lather will be formed. Hardness in water is caused by dissolved divalent metal ions, calcium and magnesium being the most common. Natural hardness occurs most frequently in limestone areas. The limestone is dissolved by contact with ground and surface water and releases calcium and magnesium ions and traces of contaminant metals.

Hard water, though not considered a health hazard, is undesirable for industrial and domestic water supplies because it has a number of detrimental effects, the most common being the formation of scale in boilers, pipes and water heaters, excessive soap consumption in home and commercial laundering, and adverse affects in textile, plating and canning industries.

Results appear under either the heading "Hardness" and "Calculated Hardness", depending on the analytical procedure. The former results are obtained through titration with ethylenedi-aminetetra-acetic acid (EDTA), the latter by calculation from magnesium (Mg) and calcium (Ca) results determined by Atomic Absorption Spectrophotometry (AAS).

## Calcium

Calcium is relatively abundant in the earth's crust and readily soluble in water so that calcium salts and calcium ions are among the most commonly encountered substances in water. They may result from the leaching of soil and may be contained in sewage and industrial wastes.

Excessive calcium and magnesium in drinking water have been implicated as factors predisposing to the formation of concretions in the body, such as kidney, or bladder stones. On the other hand, there is also evidence of

adverse physiological effects from an insufficiency of calcium in water. The calcium ion is a major contributor to hardness and is often responsible for boiler scale deposits on cooking utensils and excessive soap requirements in washing and laundering. Where water is used for irrigation, calcium is beneficial to plant growth.

### **Magnesium**

Magnesium is an abundant element and a common constituent of natural waters. Magnesium ranks with calcium as a major cause of hardness. The effects of magnesium of water used for consumption and irrigation are generally the same as those of calcium. Magnesium is considered relatively non-toxic to man and not a public health hazard because before toxic concentrations are reached in water, the taste becomes quite unpleasant.

### **Colour**

Colour in water may be of natural mineral or vegetable origin caused by metallic substances such as iron and manganese compounds, humus material, peat, tannins, algae, weeds, and protozoa. Waters may also be coloured by inorganic or organic soluble wastes from industries, such as steelworks, mining, refining, pulp and paper, chemicals, and others. Returned irrigation water also contributes to colour.

Colour from natural origin is not considered harmful from a health standpoint. However, in domestic water, colour is undesirable because of aesthetic considerations.

### **Potassium**

Potassium occurs in many minerals and potassium salts exist in natural waters as a result of contact with potassium-bearing soils and the

introduction of certain industrial wastes. The common salts of potassium are highly soluble in water. They resist separation from water by natural processes other than evaporation.

In limited concentrations, potassium is an essential nutrient. Excessive amounts of certain potassium salts in drinking water, however, have detrimental effects on human digestive and nervous systems.

### Sodium

Sodium salts are common to all natural waters and may be present in high concentrations in wash waters softened by exchanging calcium and magnesium ions for sodium. Sodium is also found in many industrial process effluents, domestic wastes and salts used in road de-icing.

Concentration of salts such as sodium chloride impact objectionable tastes and may render water unpalatable.

### Total Organic Carbon (TOC)

Total organic carbon (TOC), the most significant carbon measurement from a water-quality assessment viewpoint, is the arithmetic difference between total carbon (TC) and total inorganic carbon (TIC).

Total organic carbon usually has a direct relationship with Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) values, but the relationship varies with the composition of the organic material present. The carbon tests are rapid and suitable for the evaluation of organic pollution levels, assessment of waste treatment efficiencies and to a limited extent, the potential demand of a waste discharge on the oxygen resources of a water body.

### Dissolved Organic Carbon (DOC)

The organic content of lakes and rivers depends primarily on the products of plants and animals which those water bodies support. Most of the organic carbon in water is composed of humic substances and partly degraded plant and animal materials, some of which is resistant to microbial degradation. Runoff from agricultural land and industrial discharge from industries such as pulp and paper will add organic carbon to the water. The degradation of large amounts of organic matter causes depletion of the dissolved oxygen concentration and hence, organic carbon is also measured on sewage and industrial waste samples.

### Chemical Oxygen Demand (COD)

The chemical oxygen demand is used in measuring the strength of sewage and industrial wastes. The major advantage of this test is that laboratory results can be obtained in about three hours compared to five days for the five-day biochemical oxygen demand test. The chief limitation of the COD analysis is its inability to differentiate between biologically oxidizable and biologically inert organic matter. The COD almost always exceeds the biochemical oxygen demand.

### Solvent Extractables

The solvent extractable test measures the total quantity of substances present in a water sample that is readily soluble in an appropriate organic solvent. Such substances include fatty acids, petroleum products, oils, greases and resins. They are generally found in effluents of oil refineries, meat packing plants, slaughter houses, dairies, canneries, and a variety of other industries.

Solvent soluble materials greatly increase the oxygen depletion rate in receiving waters and will hinder oxygen exchange with the atmosphere by forming slicks.

## Arsenic

Arsenic may occur, naturally, to a small extent, mostly as sulphides and as arsenides of metals. Elemental arsenic is insoluble in water but many of the arsenates are highly soluble. Highest levels of arsenic in Ontario are found in watercourses downstream of wastewater discharges from metal smelting operations.

Arsenic is very toxic to humans and the trivalent forms are largely retained in the body tissues. Low concentrations of arsenic stimulate plant growth but higher concentrations destroy chlorophyll in the foliage.

## Mercury

Mercury may occur naturally as a free metal or as mercuric salts, the most common being cinnabar, HgS. Both elemental mercury and HgS are insoluble in water and are not likely to occur as water pollutants. Many synthetic organic salts of mercury are used commercially and these salts are highly soluble in water.

Mercury is cumulative and toxic to humans and can be concentrated and transferred up the food chain to a point where commercial and game fish may become unsuitable for human consumption. Micro-organisms can methylate inorganic mercury under both aerobic and anaerobic conditions to produce a more toxic substance.

## Aluminium

Aluminium occurs in many rocks and ores but never as a pure metal in nature. In streams, the presence of aluminium ions may result from industrial wastes or more likely from wash water from water treatment plants.



## Chromium

Few waters contain chromium from natural sources since chromium is generally present in rocks and soils as insoluble chromic oxide which is strongly sorbed to particulate matter. Chromate or dichromate salts are used extensively in metal pickling and plating operations, in anodizing aluminium, in the leather industry as a tanning agent, and in the manufacture of paints, dyes, explosives, ceramics, paper and many other substances. Chromic or chromite salts on the other hand, are used much less extensively, being employed as mordants in textile dyeing, in the ceramic and glass industry and in photography. Chromium compounds may be present in wastes from many of these industries or may be discharged in chromium-treated cooling waters where the chromium is used as a corrosion inhibitor.

There is no evidence that chromium salts are essential or beneficial to human nutrition. Salts of trivalent chromium are not considered to be physiologically harmful; however, large doses of chromates lead to corrosive effects in the intestinal tract and to nephritis. Both the chromic and chromate ions are toxic to plants and interfere with the uptake of essential elements.

## Copper

Copper salts occur in natural surface waters in trace concentrations and may occur in industrial waste discharges. Copper is used as an algicide for the control of undesirable algae growth and in the treatment of soils as a fungicide and a pesticide.

Copper compounds are toxic to plants and aquatic life.

## Lead

Some natural waters contain lead in solution. Lead may be introduced into water as a constituent of various wastes including industrial and mining effluents, lead plumbing and automobile exhaust. Certain lead salts, such as acetate and chloride, are readily soluble. However, lead which occurs in the carbonate, hydroxide and sulphate forms is sparingly soluble and will not remain long in natural waters.

Lead is a cumulative poison that tends to be deposited in the bone. The intake that can be regarded as safe cannot be stated definitely because the sensitivity of individuals to lead differs considerably. Studies on fish indicate that in water containing lead salts, a film of coagulated mucus forms over the gills and then the entire body, probably as a result of a reaction between lead and an organic constituent of mucus. The fish then die of suffocation. The toxic effects of lead on fish decreases with increasing hardness and dissolved oxygen.

## Cadmium

In the elemental form, cadmium is insoluble in water. It occurs in nature largely as a sulphide salt, greenockite or as a cadmium blend and often as an impurity in zinc-lead ores.

Cadmium salts are cumulative and highly toxic to man, and have been implicated in some cases in the cause of food poisoning. Consumption of cadmium salts causes cramps, nausea, vomiting, and diarrhea. Cadmium affects reproduction in fish and zooplankton; however, the toxic effects vary with species and time of exposure.

## Zinc

Generally, zinc occurs only in trace amounts in surface waters. The zinc ion is believed to adsorb strongly and permanently on particulate matter (e.g. silt) which settles out of suspension.

Zinc has no known adverse physiological effects upon man except at very high concentrations. At such concentrations, zinc gives water a milky appearance and causes a greasy film on boiling, thus making it unattractive for domestic water supply. Zinc is toxic to aquatic organisms and its toxicity decreases with increasing hardness.

### **Manganese**

Manganese is similar to iron in that it is found in many industrial wastes and occurs in soils as manganic and manganous compounds. Under anaerobic conditions the manganic ion is reduced to soluble nitrate, sulfate, and chloride salts of manganese and is leached, along with iron, into ground and surface waters. Like iron, its presence may indicate domestic or industrial pollution.

Water with high manganese content is undesirable for its taste, colour and tendency to form deposits on cooking utensils.

### **Nickel**

Nickel in ores and minerals is insoluble but as a salt (nickel ammonium sulphate, nickel nitrate, nickel chloride) is highly soluble.

Electroplating wastes may contain substantial amounts of nickel salts.

Nickel and its salts have generally proven to be non-toxic to man even at very high levels. Contact with nickel salt solutions may result in dermatitis and repeated inhalations of nickel compounds can cause lung cancer.

### **Fluoride**

Fluorides in high concentrations are not a common constituent of natural surface waters, but may naturally occur in detrimental concentrations in ground waters.

Excess concentrations affect animal breeding efficiency and may have detrimental effects on some plants.

### Cyanide

Cyanides are likely to occur in effluents from gas works and coke ovens, from the scrubbing of gases produced from blast furnaces, in wastes from the surface cleaning of various metals, and in electroplating processes and other chemical industries.

Cyanide in water is toxic to biological life, the lethal concentration depending on water quality, temperature and type and size of organism.

### Cobalt

Cobalt occurs naturally in the minerals cobaltite, smaltite and erythrite. It is widely used in the manufacture of alloys, the tungsten carbide tool industry and as pigments used in glass staining.

Cobalt is an essential element at trace levels for both animals and plant nutrition. It is known to be one of the main constituents of Vitamin B<sub>12</sub>. Adverse effects due to cobalt are very slight even at high concentrations.

## **3. RADIOCHEMICAL ANALYSES**

All elements are made up of atoms, each of which consists of a central nucleus surrounded by a number of electrons. Some nuclei are radioactive; they emit excess energy in the form of ionizing radiation as a result of nuclear disintegrations. The three types of ionizing radiations which are of principal interest in environmental studies are referred to as alpha, beta and gamma radiations.

1. Alpha rays are streams of fast moving helium nuclei. These are particles which can travel only a few centimetres in air and can be stopped by a sheet of paper or a layer of skin.
2. Beta rays are streams of fast moving electrons which are very much lighter than helium nuclei. The maximum range of most common beta rays is a few metres in the air or one to two centimetres in the human body.
3. Gamma rays are highly penetrating electromagnetic radiation of the same family as radio waves and x-rays. Like x-rays, gamma mass rays can pass right through the human body.

The number of nuclear disintegrations occurring in a substance per second is a measure of its radioactivity. The unit of radioactivity used in this report is becquerel (Bq). One becquerel equals one nuclear transformation per second and corresponds to approximately 27 picocuries, (a measure of radioactivity used in previous reports). Radiological half life is the length of time required for one half of the unstable atom to disintegrate or change (i.e., radioactive decay).

Exposure to radiation is characterized by the transfer of energy to molecules of the cells which make up body tissues and organs. This can affect the normal function of the cells, resulting in damage to the tissues and organs. Exposure to the small doses of radiation which might be encountered in the environment will not result in immediate detectable damage; however, long-term effects may result. These effects are in the apparently random occurrence of induced cancers and genetic defects in a small proportion of the exposed population. The numbers of effects induced are considered to be directly proportional to the amount of absorbed radiation.

### Gross-alpha

Gross-alpha is a measure of the total radioactivity of all the alpha emitting materials in a sample. Measurements of gross-alpha activity provide useful reference points to enable trends to be detected. However, the results cannot be used to determine radiation dose or health effects since the short range of alpha particles means that some will not be detected, thereby causing an underestimation of the total activity. Also, the alpha particles may be emissions from a mixture of materials that are radiologically and biologically different.

### Gross-beta

Gross-beta is a measure of the total radiation of all the beta emitting materials in a sample. Measurements of gross-beta activity provide useful reference points to enable trends to be detected but cannot be used to determine radiation dose or health effects.

### Radium-226

Radium-226 is a naturally occurring alpha-particle emitter formed from the decay of uranium-238 and has a radiological half life of 1602 years.

### Uranium-total

Total uranium exists primarily as the isotope uranium-238 with less than 1% occurring as uranium-235. Uranium is a naturally occurring alpha-particle emitter which was formed at the same time as the earth (about  $5 \times 10^9$  years) and is still present in significant quantities due to its extremely long radiological half-life ( $4.5 \times 10^9$  years).

### Cesium-137

Cesium-137 is a beta-particle emitter formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-137 is readily adsorbed and retained by biological systems. Its radiological half life is 30 years.

### Cesium-134

Cesium-134 is a beta-particle emitter also formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-134 is of less importance than Cesium-137 as its radiological half-life is only 72 hours.

### Cobalt-60

Cobalt-60 is primarily formed in atomic reactor operation due to the neutron activation of trace quantities of cobalt-59 found in steel. Insignificant quantities are also formed from nuclear weapons detonation. Cobalt-60 has a radiological half life of 5.3 years and emits both beta and gamma radiation.

### Tritium

Tritium exists fairly uniformly in the environment as a result of natural production by cosmic radiation and residual fallout from nuclear weapons tests. This background level is gradually being increased by the use of nuclear reactors to generate electricity.

Current tritium from the nuclear power industry comprises a small proportion of environmental tritium in comparison with that from nuclear weapons fallout and naturally produced tritium. However, nuclear reactors and fuel-processing plants are localized sources of tritium because of discharges during normal operation. This industry is expected to become

the major source of environmental tritium contamination some time in the future if present growth trends continue and nuclear explosion in the atmosphere is not resumed. Tritium is produced in light water nuclear reactors by ternary fission, neutron capture in coolant additives, control rods and plates, and activation of deuterium. About 1% of the tritium in the primary coolant is released in gaseous form to the atmosphere; the remainder is eventually released in liquid waste discharges. Most of the tritium produced in reactors remains in the fuel and is released when the fuel is reprocessed.

Naturally occurring tritium is most abundant in precipitation and lowest in aged water because of its physical decay by beta emission to helium.

### Iodine

Iodine is a chemical oxidant. It disinfects in a manner similar to chlorine. Iodine is the least soluble of all the halogens, hence it is the least likely to be hydrolyzed by water. It also has the lowest oxidation potential, that is, it reacts more slowly with organic compounds than chlorine. Because of this stability, iodine does not react with nitrogenous compounds as does chlorine. Iodine remains effective through a wider range than chlorine; chlorine becomes less stable at pH of 8 as compared to iodine at pH of 10.

## 4. SYNTHETIC ORGANIC ANALYSES

The synthetic organic compounds referred to in this section are classified as pesticides and industrial chemicals. These compounds contain linked carbon atoms in their chemical structure and are, for the most part, synthesized from common chemicals. Furthermore, they may be subdivided into chemical families of compounds sharing common characteristics. For example, organochlorine compounds (chlorinated hydrocarbons) contain chlorine, hydrogen and carbon in their structure; they have a tendency to accumulate in the fatty tissues of animals and are stable compounds (i.e., persistent).



Until recently, only a few classes of synthetic organic compounds such as drugs, food additives and pesticides were controlled by legislation. For example, the only pesticides which may be offered for sale in Ontario are those which have been registered under the authority of the Pest Control Products Act which is administered by Agriculture Canada. The term pesticide includes insecticides, herbicides and fungicides which are chemical compounds used to control insects, weeds or fungi (i.e., "pests") that attack crops, animals and man. In contrast to the regulation of pesticides, thousands of unregistered synthetic organic chemicals are in daily use as raw materials, products and additives. Very little is known about their possible health and environmental effects because of their sheer number and diversity of use. Many are not hazardous, but the adverse effects already encountered by some have created concern for preventative measures of both known and potentially hazardous substances.

### **Polychlorinated Biphenyls (PCBs)**

PCBs are a range of industrial chemicals produced by direct chlorination of biphenyl. The North American products in this family are sold under the name Arochlor. Arochlors are characterized by a four digit number, such as Arochlor 1242, or Arochlor 1254, of which the last two digits refer to the weight percentage of chlorine in the products. There are 208 possible compounds which could be formed by this reaction. Each product is a different mixture of up to 100 of these, each with its own unique physical, chemical and biological properties.

The main characteristics of PCBs are their chemical, physical, biological inertness and electrical insulating properties. They have been widely used in transformers and capacitors, as heat exchange fluids or plasticizers, and in inks, paint, lubricants, and many other products. Spills and waste disposal practices have resulted in very large inputs of these chemicals to all facets of the environment.

PCBs are lipophylic, and thus continuing environmental inputs have led to biological uptake and concentration. Of particular concern are the excessive levels detected in some fish. Levels in water and air to date have not demonstrated a threat to human health, as might arise from fish consumption. PCBs have been shown to be both acutely and chronically toxic, carcinogenic and teratogenic, (to cause developmental malformations). Limits for human consumption have been set on the basis of tests on monkeys and rats. The present acceptable level of PCBs in fish is 2.0 ppm. However, 0.1 ppm has been suggested as a level for protection of the fisheries resource from reproductive failure. Long-term use of PCBs, at elevated temperatures, and inefficient incineration of these materials have been shown to produce the highly toxic chlorodibenzofurans, closely related to dioxins.

#### Trichlorophenoxyacetic Acid (2,4,5-T)

2,4,5-T is a chlorophenoxy acid herbicide. Other members of this family include 2,4-D and 2,4,5-TP which were introduced as selective weed killers at the end of World War II. Their uses include weed control in cereal crops, lawns, along roadsides, hydro and railroad rights-of-way, and control of aquatic weeds.

The human toxicity of these herbicides is low; effects on farmstock and wildlife from current environmental levels would appear to be negligible and no discernible toxic effects have been reported in fish at levels below 100 mg/L.

However, 2,3,7,8-tetrachlorodibenzodioxin (TCDD), an extremely toxic compound, has been detected in 2,4,5-T formulations as a by-product of its manufacture, thus raising doubts as to the human safety of the use of 2,4,5-T, and the related herbicide 2,4,5-TP (Silvex). A tolerance level of 0.1 ppm 2,3,7,8-TCDD in 2,4,5-T formulation has been set, but the adequacy of the safety factor is still under discussion.

## **Pentachlorophenol (PCP)**

Pentachlorophenol is used as a herbicide, defoliant, insecticide, fungicide and wood preservative. The salts, esters and ethers of PCP are also effective herbicides.

PCP is considered relatively toxic to wildlife and fish and its presence in water can cause tainting of fish flesh, reducing its palatability. PCP can be harmful to man if inhaled and absorbed through the skin. There is no known antidote to PCP poisoning.

In addition to its inherent toxicity, a further problem is posed by the presence of high chlorinated dioxins, (octachlorodioxin, heptachlorodioxin, hexachlorodioxin) in PCP formulations. Although these compounds are considerably less toxic than 2,3,7,8-TCDD (tetrachlorodibenzodioxin), it has been suggested that they may degrade to 2,3,7,8-TCDD under the influence of sunlight and other environmental conditions.

## **STATION IDENTIFIER CODES, QUALIFYING REMARKS CODES AND ABBREVIATED PARAMETER HEADINGS**

### **Station Identifier Codes**

The station identifier codes which appear in the index and the top right-hand corner of the data pages are numerical descriptions of the sampling station locations and are used primarily for electronic data processing of the water quality data. The eleven digit figure is decoded as follows: the first two digits refer to the terminal basins (see figures 2 and 3), the following four digits refer to the river basin (each river basin in a terminal basin is assigned a unique number), the next three digits refer to the station number within the river basin and the last two digits refer to the type of sample (e.g. 01-lake sample, 02-stream sample, 82 to 89-composite sample, e.g. 83 - 3 part composite across a station sampling range).

## Qualifying Remarks Codes

### Distance

The distance in kilometres is measured along the centre line of a watercourse to the sampling station location from the junction of the related terminal stream and terminal basin.

### Abbreviated Headings

|                   |  |
|-------------------|--|
| BOW               | body of water  |
| STN NO            | base station number  |
| LAT               | latitude   |
| LONG              | longitude  |
| UTM               | Universal Transverse Mercator Grid                                   |
| SAMP DTE DY MO YR | sample date; day, month, year  |
| HOUR LMT          | hour(s) local mean time (2400 hour clock)                            |
| STN DIST FEET     | distance from base station (in feet) (not applicable)                |
| STN BRG           | bearing of sampling point (deg N) from base station (not applicable) |
| SAMP DEPTH MTRS   | sample depth (in metres)   |
| PJ                | project (not applicable)   |

### Abbreviated Parameter Headings

The alphabetic codes appearing as the parameter headings are a series of unique codes used for computer processing. Each alphabetic code identifies a particular water quality parameter and analytical procedure.

| Test Name and<br>Abbreviated<br>Description | Description of Test                       | Units of Measure                            |
|---|---|---|
| ACDT<br>ACIDITY<br>TOTAL                    | ACIDITY, TOTAL                            | MILLIGRAM PER LITRE<br>AS CALCIUM CARBONATE |
| ALKT<br>ALK<br>TOTAL                        | ALKALINITY, TOTAL                         | MILLIGRAM PER LITRE<br>AS CALCIUM CARBONATE |
| ALUT<br>ALUMINUM<br>UNF. TOT.               | ALUMINIUM, UNFILTERED TOTAL               | MILLIGRAM PER LITRE<br>AS ALUMINIUM         |
| ASUT<br>ARSENIC<br>UNF. TOT.                | ARSENIC, UNFILTERED TOTAL                 | MILLIGRAM PER LITRE                         |
| AS3UR<br>ARSENTE<br>UNF. REAC.              | ARSENIC +3 UNFILTERED REAC.               | MILLIGRAM PER LITRE<br>AS ARSENIC           |
| AS5UR<br>ARSENATE<br>UNF. REAC.             | ARSENIC +5, UNFILTERED REAC.              | MILLIGRAM PER LITRE<br>AS ARSENIC           |
| BOD <sub>5</sub><br>5 DAY<br>TOT. DEM.      | BOD, 5 DAY, TOTAL DEMAND                  | MILLIGRAM PER LITRE<br>AS OXYGEN            |
| CAUR<br>CALCIUM<br>UNF. REACT.              | CALCIUM, UNFILTERED REACTIVE              | MILLIGRAM PER LITRE<br>AS CALCIUM           |
| CCNAUR<br>CYANIDE<br>AVAIL<br>UNF. REACT.   | CYANIDE, AVAILABLE UNFILTERED<br>REACTIVE | MILLIGRAM PER LITRE<br>AS HYDROGEN CYANIDE  |
| CCNFUR<br>FREE<br>UNF. REACT.               | CYANIDE, FREE UNFIL. REACTIVE             | MILLIGRAM PER LITRE<br>AS HYDROGEN CYANIDE  |
| CCUT<br>CARBON<br>UNF TOT.                  | CARBON, UNFILTERED TOTAL                  | MILLIGRAM PER LITRE<br>AS CARBON            |
| CDUT<br>CADMIUM<br>UNF. TOT.                | CADMIUM, UNFILTERED TOTAL                 | MILLIGRAM PER LITRE<br>AS CADMIUM           |

| Test Name and<br>Abbreviated<br>Description | Description of Test           | Units of Measure  |
|---|-------------------------------|---|
| CLIDUR<br>CHLORIDE<br>UNF. REAC.            | CHLORIDE, UNFILTERED REACTIVE | MILLIGRAM PER LITRE<br>AS CHLORINE                      |
| COD<br>CHEM. OX.<br>DEMAND                  | CHEMICAL OXYGEN DEMAND        | MILLIGRAM PER LITRE<br>AS OXYGEN                        |
| COLAP<br>COLOUR<br>APPARENT                 | COLOUR, APPARENT              | HAZEN COLOUR UNIT                                       |
| COLTR<br>COLOUR<br>TRUE                     | COLOUR, TRUE                  | HAZEN COLOUR UNIT                                       |
| COND25<br>CONDUCT. 25C                      | CONDUCTIVITY AT 25°C          | MICROMHOS/CM (CONDUCTIVITY)<br>AT 25 DEGREES CENTIGRADE |
| COUT<br>COBALT<br>UNF. TOT.                 | COBALT, UNFILTERED TOTAL      | MILLIGRAM PER LITRE<br>AS COBALT                        |
| CO60<br>COBALT<br>60                        | COBALT 60                     | BECQUEREL PER LITRE                                     |
| CRUT<br>CHROMIUM<br>UNF. TOT.               | CHROMIUM, UNFILTERED TOTAL    | MILLIGRAM PER LITRE<br>AS CHROMIUM                      |
| CS134<br>CESIUM<br>134                      | CESIUM 134                    | BECQUEREL PER LITRE                                     |
| CS137<br>CESIUM<br>137                      | CESIUM 137                    | BECQUEREL PER LITRE                                     |
| CUUT<br>COPPER<br>UNF. TOT.                 | COPPER, UNFILTERED TOTAL      | MILLIGRAM PER LITRE<br>AS COPPER                        |
| DO<br>DISSOLVED<br>OXYGEN                   | DISSOLVED OXYGEN              | MILLIGRAM PER LITRE<br>AS OXYGEN                        |

| Test Name and<br>Abbreviated<br>Description | Description of Test  | Units of Measure                                       |
|---|--|--|
| DOC<br>CARBON<br>DISSOLVED<br>ORGANIC       | CARBON, DISSOLVED ORGANIC                                  | MILLIGRAM PER LITRE<br>AS CARBON                       |
| ECMF<br>ESCH IA<br>COLI MF                  | ESCHERICHIA COLIFORM,<br>MEMBRANE FILTRATIONS<br>TECHNIQUE | COUNTS<br>PER 100 ML                                   |
| FCMF<br>FECAL<br>COLIFORM<br>MF             | FECAL COLIFORM<br>MEMBRANE FILTRATION<br>TECHNIQUE         | COUNTS<br>PER 100 ML                                   |
| FEUT<br>IRON<br>UNF. TOT.                   | IRON, UNFILTERED TOTAL                                     | MILLIGRAM PER LITRE<br>AS IRON                         |
| FFIDUR<br>FLUORIDE<br>UNF. REAC.            | FLUORIDE, UNFILTERED REACTIVE                              | MILLIGRAM PER LITRE<br>AS FLUORIDE                     |
| FSMF<br>FECAL<br>STREPCUS<br>MF             | FECAL STREPTOCOCCUS,<br>MEMBRANE FILTRATION<br>TECHNIQUE   | COUNTS<br>PER 100 ML                                   |
| FWFLOW<br>STREAM<br>FLOW                    | STREAMFLOW   | CUBIC METRE (1000L)<br>PER SECOND                      |
| FWPH<br>PH<br>FIELD                         | PH, FIELD  | NEGATIVE LOGARITHM<br>OF HYDROGEN ION<br>CONCENTRATION |
| FWSTRC<br>STREAM<br>COND.                   | STREAM CONDITION   | NOT APPLICABLE   |
| FWTEMP<br>WATER<br>TEMP.                    | TEMPERATURE, WATER   | DEGREES CELSIUS  |

| Test Name and<br>Abbreviated<br>Description | Description of Test            | Units of Measure                            |
|---|--------------------------------|---|
| GACF<br>GROSS<br>ALPHA CT.<br>FILTERED      | GROSS ALPHA CT., FILTERED      | BECQUEREL PER LITRE                         |
| GACP<br>GROSS<br>ALPHA CT<br>UNDISSOL.      | GROSS ALPHA CT., UNDISSOLVED   | BECQUEREL PER LITRE                         |
| GBCF<br>GROSS<br>BETA CT.<br>FILTERED       | GROSS BETA CT., FILTERED       | BECQUEREL PER LITRE                         |
| GBCP<br>GROSS<br>BETA CT.<br>UNDISSOL.      | GROSS BETA CT., UNDISSOLVED    | BECQUEREL PER LITRE                         |
| HARDT<br>HARDNESS<br>TOTAL                  | HARDNESS, TOTAL                | MILLIGRAM PER LITRE<br>AS CALCIUM CARBONATE |
| HGUT<br>MERCURY<br>UNF. TOT.                | MERCURY, UNFILTERED TOTAL      | MICROGRAM PER LITRE<br>AS MERCURY           |
| HH3<br>TRITIUM<br>HYDROG-3                  | TRITIUM, (HYDROGEN 3)          | BECQUEREL PER LITRE                         |
| II131<br>IODINE<br>131                      | IODINE 131                     | BECQUEREL PER LITRE                         |
| KKUR<br>POTASSIUM<br>UNF. REAC.             | POTASSIUM, UNFILTERED REACTIVE | MILLIGRAM PER LITRE<br>AS POTASSIUM         |
| MGUR<br>MAGNESIUM,<br>FIL. REAC.            | MAGNESIUM, FILTERED REACTIVE   | MILLIGRAM PER LITRE<br>AS MAGNESIUM         |
| MNUT<br>MANGANESE,<br>UNF. TOT.             | MANGANESE, UNFILTERED REACTIVE | MILLIGRAM PER LITRE<br>AS MANGANESE         |



| Test Name and<br>Abbreviated<br>Description | Description of Test   | Units of Measure                    |
|---|---|-------------------------------------|
| NAUR<br>SODIUM<br>UNF. REAC.                | SODIUM, UNFILTERED REACTIVE                                     | MILLIGRAM PER LITRE<br>AS SODIUM    |
| NIUT<br>NICKEL<br>UNF. TOT.                 | NICKEL, UNFILTERED TOTAL  | MILLIGRAM PER LITRE<br>AS NICKEL    |
| NNHTFR<br>NH3-N<br>TOTAL<br>FIL. REAC.      | AMMONIUM, TOTAL<br>FILTERED REACTIVE                            | MILLIGRAM PER LITRE<br>AS NITROGEN  |
| NNKI<br>TOTAL N                             | TOTAL NITROGEN: SUM OF NITRATE<br>NITRITE AND KJELDAHL-NITROGEN | MILLIGRAM PER LITRE<br>AS NITROGEN  |
| NNKUR<br>KJELDAHL<br>ORGANIC UNF.<br>REAC.  | KJELDAHL-NITROGEN, ORGANIC<br>UNFILTERED REACTIVE               | MILLIGRAM PER LITRE                 |
| NNOTFR<br>NO2+NO3N<br>FIL. REACT.           | NITRATES, TOTAL<br>FILTERED REACTIVE                            | MILLIGRAM PER LITRE<br>AS NITROGEN  |
| NNOTUR<br>NO1+NO3N<br>UNF, REAC.            | NITRATES, TOTAL UNFILTERED<br>REACTIVE                          | MILLIGRAM PER LITRE<br>AS NITROGEN  |
| NNO2FR<br>NO2-N<br>FIL. REAC.               | NITRITE, FILTERED REACTIVE                                      | MILLIGRAM PER LITRE<br>AS NITROGEN  |
| NNTIFR<br>INORG. N.<br>TOTAL<br>FIL. REAC.  | NITROGEN, TOTAL INORGANIC<br>FILTERED REACTIVE                  | MILLIGRAM PER LITRE                 |
| NNO2UR<br>NO2-N<br>UNF. REAC.               | NITRITE, UNFILTERED REACTIVE                                    | MILLIGRAMS PER LITRE<br>AS NITROGEN |

| Test Name and<br>Abbreviated<br>Description | Description of Test                                      | Units of Measure                                       |
|---|--|--|
| NN03FR<br>N03-N<br>FILT. REAC.              | NITRATE, FILTERED REACTIVE                               | MILLIGRAM PER LITRE<br>AS NITROGEN                     |
| NN03UR<br>N03-N<br>HNF. REAC.               | NITRATE, UNFILTERED REACTIVE                             | MILLIGRAM PER LITRE<br>AS NITROGEN                     |
| NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF. TOT.    | NITROGEN, TOTAL KJELDAHL<br>UNFIL. REACTIVE              | MILLIGRAM PER LITRE<br>AS NITROGEN                     |
| PBUT<br>LEAD UNF. TOT.                      | LEAD, UNFILTERED TOTAL                                   | MILLIGRAM PER LITRE<br>AS LEAD                         |
| pH  | pH (-LOG H+CONC), LAB.                                   | NEGATIVE LOGARITHM<br>OF HYDROGEN ION<br>CONCENTRATION |
| PHNOL<br>PHENOLS<br>UNF-REAC                | PHENOLICS, UNFILTERED REACTIVE                           | MICROGRAM PER LITRE<br>AS PHENOL                       |
| PP04FR<br>P04<br>FIL. REAC.                 | PHOSPHATE, FILTERED REACTIVE                             | MILLIGRAM PER LITRE<br>AS PHOSPHORUS                   |
| PP04UR<br>P04<br>UNF. REAC.                 | PHOSPHATE, UNFILTERED REACTIVE                           | MILLIGRAM PER LITRE<br>AS PHOSPHORUS                   |
| PPUT<br>PHOSPHOR<br>UNF. TOT.               | PHOSPHORUS, UNFILTERED TOTAL                             | MILLIGRAM PER LITRE<br>AS PHOSPHORUS                   |
| PSAMF<br>PSEUDOMN<br>AERUG,<br>MF           | PSEUDOMONAS, AERUGINOSA<br>MEMBRANE FILTRATION TECHNIQUE | COUNTS<br>PER 100 ML                                   |
| P1PCBT<br>PCB<br>TOTAL                      | POLYCHLORINATED<br>BIPHENOLS, TOTAL                      | MICROGRAM PER LITRE                                    |
| P3245T<br>2,4,5-T                           | 2,4,5-Trichlorophnoxyacetic                              | MICROGRAM PER LITRE                                    |

| Test Name and<br>Abbreviated<br>Description | Description of Test                         | Units of Measure                   |
|---|---|------------------------------------|
| RA226F<br>RADIUM<br>226 FIL.                | RADIUM-226, FILTERED                        | BECQUEREL PER LITRE                |
| RA226T<br>RADIUM<br>226 TOT.                | RADIUM-226, TOTAL                           | BECQUEREL PER LITRE                |
| RSF<br>RESIDUE<br>FILTERED                  | RESIDUE, FILTERED                           | MILLIGRAM PER LITRE                |
| RSFRAD<br>RESIDUE<br>FILTERED<br>RADIOLOG   | RESIDUE, FILTERED<br>RADIOLOGICAL           | MILLIGRAM PER LITRE                |
| RSP<br>RESIDUE<br>PARTIC.                   | RESIDUE, PARTICULATE                        | MILLIGRAM PER LITRE                |
| RSPRAD<br>RESIDUE<br>PARTIC.<br>RADIOLOG    | RESIDUE, PARTICULATE                        | MILLIGRAM PER LITRE                |
| RST<br>RESIDUE<br>TOTAL                     | RESIDUE, TOTAL                              | MILLIGRAM PER LITRE                |
| SAMPLE<br>NUMBER                            | SAMPLE NUMBER, FIELD                        | NOT APPLICABLE                     |
| S103UR<br>SILICATE<br>UNF. REAC.            | SILICATES, UNFILTERED<br>REACTIVE           | MILLIGRAM PER LITRE<br>AS SILICON  |
| SOLEXT<br>SOLVENT<br>EXTRACT.               | SOLVENT EXTRACTABLES                        | MILLIGRAM PER LITRE                |
| SSIDUR<br>SULPHIDE                          | SULPHIDE, UNFILTERED<br>REACTIVE UNF. REAC. | MILLIGRAM PER LITRE                |
| SS04UR<br>SULPHATE<br>UNF. REAC.            | SULPHATE, UNFILTERED<br>REACTIVE            | MILLIGRAM PER LITRE<br>AS SULPHATE |

| Test Name and<br>Abbreviated<br>Description | Description of Test  | Units of Measure               |
|---|--|--------------------------------|
| TCMF<br>COLIFORM<br>TOTAL MF                | COLIFORM, TOTAL MEMBRANE<br>FILTRATION TECHNIQUE               | COUNTS<br>PER 100 ML           |
| TCMFBK<br>COLIFORM<br>TOTAL MF<br>BCKGRD    | COLIFORM, TOTAL MEMBRANE<br>FILTRATION TECHNIQUE<br>BACKGROUND | COUNTS PER 100 ML              |
| TURB<br>TURB'ITY                            | TURBIDITY  | FORMAZIN TURBIDITY UNIT        |
| UU238<br>URANIUM<br>238                     | URANIUM 238  | MILLIGRAM PER LITRE            |
| X3PCPH<br>PENTACHL<br>PHENOL                | PENTACHLOROPHENOL  | NANOGRAMS PER LITRE            |
| ZNUT<br>ZINC<br>UNF. TOT.                   | ZINC, UNFILTERED TOTAL   | MILLIGRAM PER LITRE<br>AS ZINC |

## OTHER ABBREVIATIONS

|                |  |
|----------------|--|
| ARITH MEAN     | arithmetic mean                                  |
| AVE.           | avenue   |
| AVG OR GEOM MN | arithmetic mean or geometric mean (denoted by *) |
| BLVD.          | boulevard  |
| BR.            | branch, bridge or brook                          |
| CORP.          | corporation                                      |
| CAN.           | Canadian   |
| C.N.R.         | Canadian National Railway                        |
| CO.            | county or company                                |
| CONC.          | concession                                       |
| C.P.R.         | Canadian Pacific Railway                         |
| CR.            | Creek  |
| DR.            | drive  |
| FT.            | feet   |
| GEOM MEAN      | geometric mean                                   |
| HWY.           | highway  |
| JNT.           | junction   |
| L.             | left   |
| MG             | milligram(s)                                     |
| MG/L or mg/L   | milligrams per litre                             |
| ML             | millilitre(s)                                    |
| N.             | north  |
| NG/L           | nanogram(s) per litre                            |
| NO/OF SAMPLES  | number of samples                                |
| PT.            | part or point                                    |
| Q.E.W.         | Queen Elizabeth Way                              |
| R.             | river or right                                   |
| RD.            | road   |
| R.R.           | railroad   |
| RW.            | railway  |
| S.             | south  |
| STD DEV        | standard deviation                               |
| S.T.P.         | sewage treatment plant                           |
| TWP.           | township   |
| UG/L           | micrograms per litre                             |
| W.P.C.P.       | water pollution control plant                    |
| WW.            | water-works                                      |

An "Exponent" is used to move the decimal point to the right when the result is greater than 7 digits or to the left if the result is measured to more than three decimal places.

|                |                    |        |
|----------------|--------------------|--------|
| EXPONENT = + 4 | multiple result by | 10,000 |
| = + 3          | " " "              | 1,000  |
| = + 2          | " " "              | 100    |
| = + 1          | " " "              | 10     |
| = - 1          | divide result by   | 10     |
| = - 2          | " " "              | 100    |
| = - 3          | " " "              | 1,000  |
| = - 4          | " " "              | 10,000 |

## ANALYTICAL TECHNIQUES USED TO MEASURE WATER QUALITY

### Microbiological Parameters

### Analytical Technique

|                        |                     |
|------------------------|---------------------|
| Total Coliforms        | Membrane Filtration |
| Fecal Coliforms        | Membrane Filtration |
| Fecal Streptococcus    | Membrane Filtration |
| Pseudomonas Aeruginosa | Membrane Filtration |
| Background Count       | Membrane Filtration |

### Chemical and Physical Parameters

### Analytical Technique

|                                 |  |
|---------------------------------|--|
| Alkalinity                      | Auto* fixed endpoint titration             |
| Ammonia-N (filtered total)      | Auto modified Berthelot reaction           |
| Arsenic                         | Flameless AAS**; colourimetry              |
| Cadmium                         | AAS  |
| Calcium                         | AAS; EDTA titrimetric                      |
| Carbon                          | Auto oxidation, colourimetry               |
| Chloride                        | Auto potentiometric titration; Auto FeCNS  |
| Chromium                        | AAS; colourimetry                          |
| Conductivity                    | 25°C thermostated conductivity meter       |
| Copper                          | AAS  |
| Iron (total)                    | AAS; Auto TPTZ colourimetry                |
| Lead                            | AAS  |
| Magnesium                       | AAS; calculation from hardness, Ca         |
| Manganese                       | AAS; Auto formal doxine colourimetry       |
| Mercury                         | Flameless AAS                              |
| Nickel                          | AAS  |
| Nitrate + Nitrite-N (filtered)  | Auto hydrazine reduction-diazotization     |
| Kjeldahl-N                      | Digest, Auto modified Berthelot reaction   |
| Phosphate-P (filtered reactive) | Auto molybdenum blue-ascorbic acid         |
| pH                              | Potentiometric-glass electrode             |
| Phenolics-reactive              | Auto distillation-4AAP                     |
| Phosphorus-total                | Digest, Auto molybdenum blue-ascorbic acid |
| Phosphorus-filtered total       | Digest, Auto molybdenum blue-ascorbic acid |
| Potassium                       | AAS  |

|                    |   |
|--------------------|---|
| Selenium           | Fluorimetry                               |
| Silicates-reactive | Auto molybdenum blue-ascorbic acid        |
| Sodium             | AAS                                       |
| Solids-suspended   | Gravimetric                               |
| Sulfate            | Auto MTB colourimetry; Ion Chromatography |
| Turbidity          | Nephelometry, formazin standard           |
| Zinc               | AAS                                       |

#### Radiochemical Parameters

|               |  |
|---------------|--|
| Gross alpha   | Nuclear disintegrations count from evaporated residues |
| Gross beta    | Nuclear disintegrations count from evaporated residues |
| Radium-226    | Diemination technique                                  |
| Uranium-total | Fluorometric technique                                 |
| Cesium-137    | Gamma spectrometry                                     |
| Cesium-134    | Gamma spectrometry                                     |
| Cobalt-60     | Gamma spectrometry                                     |

#### Synthetic Organic Parameters

|         |  |
|---------|--|
| PCB     | Solvent extraction, gas chromatography |
| 2,4,5-T | Solvent extraction, gas chromatography |
| PCP     | Solvent extraction, gas chromatography |
|         | * Automated instrumentation            |
|         | ** Atomic Absorption Spectrophotometry |



## GLOSSARY OF TERMS

### Arithmetic Mean

- The nth quotient of the summation of n observations. The equation for the arithmetic mean ( $\bar{X}$ ) can be expressed as:

$$\bar{X} = \frac{X_1 + X_2 + X_3 + \dots + X_n}{n}$$

### Detection Limit

- The amount of analyte required to be present to ensure that when it is 'absent' it will not be reported as 'present'.

### Geometric Mean

- The nth root of the product of n observations. The equation for the geometric mean ( $G_x$ ) can be expressed as:

$$G_x = \sqrt[n]{X_1 \times X_2 \times \dots \times X_n}$$

or

$$G_x = \text{antilog} \left( \frac{\log X_1 + \log X_2 + \dots + \log X_n}{n} \right)$$

### Standard Deviation

- A measure of variability or dispersion. For a set of n observations,  $X_i$  ;  $i = 1, \dots, n$ . The standard deviation is given as:

$$S = \sqrt{\Sigma(x_i - \bar{x})^2 / (n - 1)}$$

### SELECTED REFERENCES

Environment Canada, Inland Waters Directorate, Water Survey of Canada  
"Surface Water Data, Ontario".

Ontario Ministry of Environment, 1978. (Revised, 1984). "Water  
Management - Goals, Policies, Objectives and Implementation  
Procedures of the Ministry of Environment".

Ontario Ministry of Environment, Laboratory Services Branch, 1981.  
"Outlines of Analytical Methods, A Guide to the Occurrence,  
Significance, Sampling and Analytical of Chemical and  
Microbiological Parameters in Water, Sediment, Soil, Vegetation and  
Air."

Ontario Ministry of Environment and Ministry of Natural Resources, 1988.  
"Guide to Eating Ontario Sport Fish."

SH/avf  
00366-05A-SW/  
WTRSHD89-90.3

# ABBREVIATIONS AND REMARKS USED ON REPORTS

## ABBREVIATIONS USED:

|          |  |
|----------|--|
| BTH GRAB | BOTTOM GRAB SAMPLE   |
| CORE     | BOTTOM CORE SAMPLE   |
| CNT LOW  | BACTERIA COUNT UNACCEPTABLE  |
| DATA AVL | DATA NOT STORED IN THIS SYSTEM BUT IS AVAILABLE  |
| DC       | DEPTH COMPOSITE SAMPLE   |
| DD       | DAY  |
| ET       | END TIME   |
| EXP      | PRECIPITATING AT EXPOSURE (FOR PRECIP. SAMPLES)  |
| GC       | GAUGE DEPTH (FOR PRECIP. SAMPLES)  |
| I        | DEPTH INTERVAL (IN METERS) WHEN ASSOCIATED WITH DC<br>TIME INTERVAL (IN HOURS) WHEN ASSOCIATED WITH TC |
| ID       | INITIAL DATE (SET-UP DATE FOR PRECIP. SAMPLES)   |
| IT       | INITIAL TIME (SET-UP TIME FOR PRECIP. SAMPLES)   |
| LAT      | LATITUDE   |
| LONG     | LONGITUDE  |
| LMT      | LOCAL MEAN TIME  |
| L01      | LOW VOLUME SEQUENTIAL SAMPLE   |
| L02      | LOW VOLUME NUTECH SAMPLE   |
| MM       | MONTH  |
| N        | NUMBER OF SAMPLES (USED FOR DC, TC AND CORE SAMPLES)   |
| DRY      | PRECIPITATION SAMPLE (DRY ONLY)  |
| WET      | PRECIPITATION SAMPLE (WET ONLY)  |
| BULK     | PRECIPITATION SAMPLE (BULK)  |
| GRND     | PRECIPITATION SAMPLE (ON GROUND SNOW COURSE)   |
| REN      | PRECIPITATING AT REMOVAL (FOR PC SAMPLES 0,1,2,3)  |
| SD       | START DEPTH  |
| ST       | START TIME   |
| SED CORE | SEDIMENT CORE SAMPLE (DEPTH FROM AND TO MEASURED IN CM)  |
| SED GRAB | SEDIMENT GRAB SAMPLE (DEPTH FROM AND TO MEASURED IN CM)  |
| MLE      | WATER LAYER - WHOLE LAKE COMPOSITE   |
| EPI      | WATER LAYER - EPIIMNION ZONE   |
| MET      | WATER LAYER - METALIMNION ZONE   |
| HYP      | WATER LAYER - HYPOLIMNION ZONE   |
| EUP      | WATER LAYER - EUPHOTIC ZONE  |
| GEN      | WATER LAYER - GENERAL LAYER  |
| TC       | TIME COMPOSITE SAMPLE  |
| TNTC     | BACTERIA TOO NUMEROUS TO COUNT   |
| V        | VOLUME WHEN ASSOCIATED WITH L01 AND L02 SAMPLES  |
| YY       | YEAR   |

## NOTE:

ONE SAMPLE DESIGNATES DATA ASSOCIATED WITH A LOCATION AT ONE POINT IN TIME

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| <      | ACTUAL RESULT < THAN REPORTED VALUE | PE           |
| <=>    | APPROXIMATE RESULT                  |              |
| <DL    | REPORTED VALUE=MDL: MEASURE AMT<MDL | PT           |
| <E     | NO RESP.: (EXCESS DIL'N) MIN. VALUE | PE           |
| <N     | NON-DETECTED                        | PE           |
| <R     | DETECT LIMIT REPORT: VALUE < LIMIT  | PE           |
| <S     | TRACE RESP.: < THAN VALUE REPORTED  | PE           |
| <SQ    | LESS THAN-BASED ON SEMI-QUANT. METH |              |
| <T     | A MEASURABLE TRACE AMOUNT           | PT           |
| <TE    | MEASURABLE TRACE AFTER EXTRA DIL/CO | PT           |
| <W     | NO MEASURABLE RESPONSE (0) <REP. V. | PT           |
| <WE    | NO MEASURABLE RESPONSE (DILN/CONC)  | PT           |
|        | NO DATA WILL BE REPORTED: SEE TEXT  |              |
| #      | INTERNAL TEST: NOT INCLUDED IN REP. |              |
| AA     | NO DATA: ANAL. REQ ABSENT-AMBIGUOUS |              |
| AB     | NO DATA: ANOMALOUS DATA WITHDRAWN   |              |
| AI     | ADDITIONAL INFORMATION AVAIL AT LAB |              |
| AL     | NO DATA: AL NOT DONE, PH > 5.5      |              |
| AM     | NO DATA: PH > 7                     |              |
| AR     | SEE ATTACHED REPT: NO NUMERIC VALUE |              |
| AW     | NO DATA: ANALYSIS WITHDRAWN         |              |
| BC     | NO DATA: BACKGRND COLOUR INTERFERES |              |
| BL     | NO DATA: UNRELIABLE BLANK           |              |
| BN     | NO DATA: BACKGROUND TOO NUMEROUS    |              |
| BT     | NO DATA: SAMPLE BROKEN IN TRANSIT   |              |
| CA     | NO DATA: CARBONATE NOT DONE, PH<5.0 |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| CL     | NO DATA: EXCESSIVE CHLORINE LEVEL   |              |
| CR     | COULD NOT PERFORM CONFIRMING REANAL |              |
| CS     | NO DATA: CONTAMINATION SUSPECTED    |              |
| CU     | NO DATA: COLONY COUNT UNSUITABLE    |              |
| DD     | NO DATA: DUPLICATES FOUND TO DIFFER |              |
| DI     | NO DATA: SAMPLE DISCARDED IN ERROR  |              |
| DL     | NO DATA FOR LPA DUE TO SIZE DISTRIB |              |
| DS     | NO DATA FOR SPA DUE TO SIZE DISTRIB |              |
| EE     | NO DATA: EMPTY ENVELOPE             |              |
| EF     | NO DATA: LABORATORY EQUIP. FAILURE  |              |
| EP     | NO DATA: EXCESS. PRESERVATIVE USED  |              |
| FB     | NO DATA: FROZEN CONTAINER BROKEN    |              |
| FC     | NO DATA: FOIL CAP CONTAMINATED SAMP |              |
| FF     | NO DATA: FIELD FILTERED SAMP REQURD |              |
| GL     | NO DATA: GREEN LABEL REQ ON BOTTLE  |              |
| HB     | NO DATA: HIGH BACKGROUND ABSORBANCE |              |
| HI     | RERUN: NO VALUE,OFFSCALE HIGH       |              |
| IC     | NO DATA: IMPROPER CONTAINER         |              |
| IF     | NO DATA: INVALID FILTER-NO AIR VOL  |              |
| IL     | NO DATA: SAMPLE INCORRECTLY LABELED |              |
| IM     | INTERNAL LAB MEMO; FOR LAB USE ONLY |              |
| IP     | NO DATA: INSUFFICIENT PRESERVATIVE  |              |
| IR     | NO DATA: INSUFFICIENT FOR REPEAT AN |              |
| IS     | NO DATA: INSUFFICIENT SAMPLE        |              |
| IV     | NO DATA: INVALID SAMPLE             |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| LC     | NO DATA: LAB CAPACITY EXCEEDED      |              |
| LD     | NO DATA: TEST QUEUED:SAMP DISCARDED |              |
| LO     | RERUN: NO VALUE,OFFSCALE LOW        |              |
| LP     | NO DATA: PERISHABLE TEST QUEUE LATE |              |
| MS     | NO DATA: TOO COMPLEX, REF TO MS GRP |              |
| NA     | NO DATA: NO AUTHORIZATION TO ANALYZ |              |
| ND     | NO DATA: NOT ANALYZED               |              |
| NE     | SUBM SHEET MISPLACED - NOT ENTERED  |              |
| NF     | NO DATA: INFORMATION NOT RECEIVED   |              |
| NI     | NO DATA: SAMP NOT STORED IN ICE     |              |
| NM     | NO DATA: NO DISCHARGE               |              |
| NN     | NO DATA: TESTS REQ. IN LIS ERROR    |              |
| NP     | NO DATA: NO APPROP. PROCEDURE AVAIL |              |
| NR     | NO DATA: SAMPLE NOT RECEIVED AT LAB |              |
| NS     | NO DATA: NOT EQUIP. TO ANALY SAFELY |              |
| NT     | NO DATA: NO TIME RECORDED           |              |
| OC     | NO DATA: ORGANIC CARBON CONTENT>17% |              |
| OF     | SLUDGE SAMP DISCARD:BOTTLE OVERFILL |              |
| OP     | NO DATA: OBSCURED PLATE             |              |
| OS     | NO DATA: OPTIONAL SAMPLE            |              |
| OT     | SAMPLE OVERTITRATD:NO REPEAT POSBLE |              |
| PE     | PROCEDURE ERROR: SAMP NOW DISCARDED |              |
| PH     | NO DATA: PH OUTSIDE VALID RANGE     |              |
| PM     | NO DATA: PIECE MISSING              |              |
| PR     | NO DATA: PRESERVATIVE REQUIRED      |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| QU     | NO DATA: QUALITY CONTROL UNACCEPT.  |              |
| RC     | RESULT CHANGED: REPORT REVISED      |              |
| RD     | SEE ATTCH. REPT:NO NUM VALUE:DIOXIN |              |
| RE     | NO DATA: SAMP CONTAINER RECV. EMPTY |              |
| RI     | SEE ATTCH. REPT:NO NUM VALUE:ITCS   |              |
| RL     | RESULT FORTHCOMING FROM RAD. LAB    |              |
| RM     | SEE ATTCH. REPT:NO NUM VALUE:MICRO  |              |
| RN     | SEE ATTCH. REPT FOR NUMERIC RESULT  |              |
| RO     | SEE ATTCH. REPT:NO NUM VALUE:OTCS   |              |
| RP     | SEE ATTCH. REPT:NO NUM VALUE:PEST   |              |
| RR     | NO DATA: RERUN HAS BEEN INITIATED   |              |
| RS     | REPORT SENT TO PRIMARY CLIENT       |              |
| RT     | SAMPLE NOT REFRIGERATED IN TRANSIT  |              |
| RW     | SEE ATTCH. REPT:NO NUM VALUE:WQS    |              |
| SD     | NO DATA: SAMPLE DECOMPOSED          |              |
| SE     | SAMPLE EXAMINED: SEE OTHER RESULTS  |              |
| SF     | NO DATA: SAMPLE RECEIVED FROZEN     |              |
| SL     | NO DATA: SAMP ARRIVED LATE FOR ANAL |              |
| SM     | NO DATA: SAMPLE MISSING:LOST IN LAB |              |
| SS     | SEPARATE SAMP, PROPER. PRESERVE REQ |              |
| ST     | NO DATA: SEE ATTACHED TEXTUAL INFO. |              |
| TE     | TURB LIMIT OF APP COLOR TEST EXCEED |              |
| TF     | NO DATA: TORN FILTER                |              |
| TH     | TURBIDITY EXCEEDED INSTRUMENT RANGE |              |
| TM     | NO DATA: TEST MEDIA NOT AVAILABLE   |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| TO     | NO DATA: HI ORGANIC PRECLUDED MICRO |              |
| TU     | NO DATA: ANALY TEMPORARILY UNAVAIL. |              |
| TW     | NO DATA: TARE WEIGHT >LOADED WEIGHT |              |
| TX     | NO DATA: TIME LIMIT EXPIRED         |              |
| U      | NO DATA: UNSUITABLE FOR ANALYSIS    |              |
| UB     | NO DATA: BROKEN SAMPLE CONTAINER    |              |
| UD     | INSUFFICIENT SAMPLE                 |              |
| UE     | NO DATA: UNCORRECTABLE ERROR        |              |
| UI     | NO DATA: UNDETERMINED INTERFERENCE  |              |
| UN     | NO DATA: RESULTS UNRELIABLE         |              |
| UP     | NO DATA: NO INFLECTION POINT DETECT |              |
| UR     | NO DATA: UNPRESERVED SAMP REQUIRED  |              |
| VE     | INSUFFICIENT SAMP:VISUAL EST:RSP<15 |              |
| VN     | NO DATA: SAMPLE CONTAINER NOT FULL  |              |
| VU     | NO DATA: VALUES USED IN CACL UNVAIL |              |
| WP     | NO DATA: WRONG PRESERVATIVE USED    |              |
| 1W     | NO DATA: SAMPLE AGE EXCEEDS 1 WK    |              |
| 12     | NO DATA: SAMPLE AGE EXCEEDS 12HR    |              |
| 24     | NO DATA: SAMPLE AGE EXCEEDS 24HR    |              |
| 30     | NO DATA: SAMPLE AGE EXCEEDS 30 HRS  |              |
| 48     | NO DATA: SAMPLE AGE EXCEEDS 48 HRS  |              |
| 72     | NO DATA: SAMPLE AGE EXCEEDS 72HR    |              |
| #?     | CHECK: LIS PICKED PREVIOUS RERUN    |              |
| #??    | CHECK: LIS PICKED FROM PREV. RERUNS |              |
| #DE    | DEMO RESULT- DO NOT REPORT !!!!!!!  |              |



# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| *LO    | RERUN: READING TOO LOW- USE LG ALIQ |              |
| *RE    | BAD READING. NO RESULT              |              |
| *RH    | RERUN: DILUTION READING TOO HIGH    |              |
| *RL    | RERUN: DILUTION READING TOO LOW     |              |
| *RR    | RERUN REQUESTED                     |              |
| >      | ACTUAL RESULT > THAN REPORTED VALUE | PE           |
| >SF    | ACTUAL MASS > SIZED FIBRE MASS      | PE           |
| ?      | LATE DATA: DATA NOT YET AVAILABLE   | PT           |
| A      | APPROXIMATE VALUE                   |              |
| A>     | APROX RSLT:EXCEED NORMAL RNGE LIMIT |              |
| AAI    | ADDITIONAL INFO AVAILABLE FROM LAB  |              |
| AGE    | SAMPLE AGE EXCEEDED NORMAL LIMIT    |              |
| AID    | APPROX VALUE: INSUFFICIENT DILUTION |              |
| AIP    | ANALYSIS IN PROGRESS                |              |
| AIT    | ANALYSIS BY IODINE TITRATION METHOD |              |
| ALO    | TOO ORGANIC;4:1 SOL'N:SOIL RATIO    |              |
| APD    | ANALYSIS PERFORMED AT DORSET LAB    |              |
| AR     | ATTACHED REPORT                     | PT           |
| BLD    | BOTTLE LABEL/SUBMISSION FORM DIFFER |              |
| BNL    | BOTTLE NOT LABELLED- LOCATION?      |              |
| BPS    | RESULTS BIASED LOW DUE TO LONG STOR |              |
| C      | BACKGROUND COUNT TOO NUMEROUS       |              |
| CIC    | POSSIBLE CONTAM DUE TO IMPROPER CAP |              |
| CID    | IONCAL FOR LAB USE ONLY             |              |
| CIT    | CONFIRMED BY IODINE TITRATION METH  |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| CRC    | TEMP CONTINGENCY: RSF = COND.* .065 |              |
| CRO    | CALCULATED RESULT ONLY              |              |
| DCC    | DANGER: SAMPLE CONTAINS CARCINOGENS |              |
| DCN    | DANGER: SAMPLE CONTAINS CYANIDE     |              |
| DCP    | DANGEROUS CONSTITUENTS PRESENT      |              |
| DUP    | DUPLICATE                           |              |
| DWP    | DRINKING WATER QUALITY POOR         |              |
| DMU    | DRINKING WATER QUALITY UNSAFE!      |              |
| D24    | ANALYSIS DELAYED TO 24HR: OVERLOAD. |              |
| D48    | ANALYSIS DELAYED TO 48HR: OVERLOAD. |              |
| E      | ESTIMATED OR COMPUTED VALUE STORED  |              |
| EBR    | NO RESULT: BOTTLE RECEIVED EMPTY    |              |
| EDC    | EXCEEDS 1978 DRINK WATER QUAL CRIT  |              |
| EV     | ESTIMATED VALUE - TARE WT UNVAIL.   |              |
| FAM    | FRACTION ANALY: NON-AQUEOUS PHASE   |              |
| FAP    | FRACTION ANALY: PARTICULATE ONLY    |              |
| FAQ    | FRACTION ANALY: AQUEOUS PHASE ONLY  |              |
| FBA    | LAB STAFF:FILT.WHOLE SAMP BEFORE AN |              |
| HRF    | SUSPECTED HIGH RESULT:IRON PRECIP   |              |
| I      | INTERFERENCE SUSPECTED              |              |
| IB     | INTERFERENCE: BACKGROUND            | PT           |
| IC     | INTERFERENCE: COLOUR                |              |
| IM     | INTERFERENCE: SAMPLE MATRIX         | PT           |
| IST    | INSUFFICIENT SAMPLE: PETBOTTLE LEAK |              |
| LPI    | LABELS PROBABLY INTERCHANGED        |              |

ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| MES    | 2345+2346-TETRACHOLOR-PHENOL TOGETH |              |
| MP     | MULTIPHASE SAMPLE(SUSPECTED RESULT) | PT           |
| NAF    | NOT ALL REQUIRED TESTS FOUND        |              |
| NED    | NOT ENOUGH DATA                     |              |
| NEW    | TEST ANALYZED BY NEW METHOD         | PT           |
| NNN    | NOTE: CORRECTED VALUE               |              |
| NSD    | NO SAMPLE DATE INDICATED            |              |
| NSS    | NO SUITABLE SAMPLE                  |              |
| NTR    | NO TIME RECORDED: ANAYL. PERFORMED  |              |
| O      | OLD: SAMPLE EXCEEDS MAX. STORAGE T. | PT           |
| PFS    | TEST PERFORMED ON PREV FROZEN SAMP  |              |
| PHA    | PH ADJUSTED BEFORE ANALYSIS         |              |
| PLD    | PASSIVE LOADING                     |              |
| PLT    | PALUSTRIC+LEVOPIMARIC ACID TOGETHER |              |
| PMF    | TEST PERFORMED ON NON-FROZEN SAMPLE |              |
| PNS    | TEST PERFORMED ON UNPRESERVE SAMPLE |              |
| PPS    | TEST PERFORMED ON PRESEVERED SAMPLE |              |
| PS1    | PCB RESEM.MIX AROCLR 1248,1254,1260 |              |
| PS2    | PCB RESEM.MIX AROCLR 1242 1245 1260 |              |
| P16    | PCB RESEMBLED AROCLOR 1016          | PT           |
| P20    | PCB RESEMBLED MIX AROCLOR 1242 1260 |              |
| P21    | PCB RESEMBLED AROCLOR 1221          |              |
| P24    | PCB RESEMBLED MIX:AROCLOR 1242,1254 |              |
| P28    | PCN RESEMBLED MIX:AROCLOR 1242,1248 |              |
| P32    | PCB RESEMBLED AROCLOR 1232          | PT           |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                     | COMMENT CODE |
|--------|---------------------------------------|--------------|
| P42    | PCB RESEMBLED AROCLOR 1242            |              |
| P48    | PCB RESEMBLED AROCLOR 1248            |              |
| P54    | PCB RESEMBLED AROCLOR 1254            |              |
| P60    | PCB RESEMBLED AROCLOR 1260            |              |
| P80    | PCB RESEMBLED MIX: AROCLOR 1248, 1260 |              |
| P84    | PCB RESEMBLED MIX: AROCLOR 1248, 1254 |              |
| RID    | IONCAL CALC. ON INCOMPL. DATA SET     |              |
| RSP    | REPEAT SAMPLE-DRINKING WATER POOR     |              |
| RSU    | REPEAT SAMPLE-DRINKING H2O UNSAFE     |              |
| R24    | REPEAT: 24 HRS SAMPLING TO ANALYSIS   |              |
| R48    | REPEAT: 48 HRS SAMPLING TO ANALYSIS   |              |
| R72    | REPEAT: 72 HRS SAMPLING TO ANALYSIS   |              |
| SBF    | WHOLE FISH SUBMITTED - SBF ANALYZED   | UO           |
| SBO    | SAMPLE BOTTLE OVERFILLED              |              |
| SCT    | SAMPLE NOT COOLED DURING TRANSIT      |              |
| SD     | SAMPLE DUPLICATES DIFFER IN APPEAR.   |              |
| SFT    | SAMPLE FROZEN IN TRANSIT              |              |
| SID    | SAMPLE IDENTIFICATION QUESTIONABLE    |              |
| SIL    | SAMP INCORRECTLY LABELLED             |              |
| SIP    | SAMPLE IMPROPERLY PRESERVED           | PT           |
| SPH    | SATURATED PASTE PH REPT: HIGH ORGAN.  |              |
| SPL    | SEVERAL PEAKS, LARGE, NOT PRIORITY    |              |
| SPS    | SEVERAL PEAKS, SMALL, NOT PRIORITY    |              |
| SQT    | RESULT BASED ON SEMI-QUANT. METHOD    |              |
| SRP    | SPECIAL RESAMPLE- DRINKING H2O POOR   |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| STA    | SAMP TOO OLD FOR RE-ANALYSIS        |              |
| STC    | SAMP TOO COMPLEX FOR THIS METHOD    |              |
| TAF    | TRACE AMOUNT FOUND                  |              |
| TNA    | SOME TESTS REQUESTED NOT AVAILABLE  |              |
| U      | UNRELIABLE RESULT                   |              |
| UAM    | UNRELIABLE: ANALYZER MALFUNCTION    |              |
| UAU    | UNRELIABLE- SAMPLE AGE UNKNOWN      |              |
| UCI    | UNRELIABLE: SUSPECTED CL2 INTERFER. |              |
| UCL    | UNRELIABLE: EXCESSIVE CL2 LEVEL     |              |
| UMF    | UNRELIABLE: MULTIPLE FILTERS SUBMIT |              |
| UQC    | DATA UNRELIABLE: POSSIBLE LAB QC P. | PT           |
| URD    | RESULT MAY BE LOW: UNDISOLVE PART.  |              |
| USF    | UNRELIABLE: SAMPLE FROZEN IN TRANS. |              |
| USH    | ALUMINUM FOR METALS SAMPLE          | PT           |
| USP    | PLASTIC ORGANICS SAMPLE             | PT           |
| UST    | UNRELIABLE: PET BOTTLE LEAKED TRANS |              |
| UTF    | UNRELIABLE: TORN FILTER             |              |
| U24    | UNRELIABLE: SAMPLE AGE EXCEEDS 24HR |              |
| U30    | UNRELIABLE- SAMPLE AGE EXCEEDS 30HR |              |
| MFA    | WHOLE FISH ANALYZED                 | UO           |
| MSB    | WARNING-HEAVY SILT IN SAMP BIAS RES |              |
| MSD    | WRONG SAMP DESCRIPTION ON BOTTLE    |              |
| WST    | WET SAMP MASS USED:RESLT REPT MG/KG |              |
| X1     | DILUTD BY 10 DETECT LINT 10X NORM   |              |
| X2     | DILUTD BY 100 DETECT LINT 100X NORM |              |

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

| REMARK | MEANING OF REMARK                   | COMMENT CODE |
|--------|-------------------------------------|--------------|
| 24P    | P-A BOTTLE POSITIVE AFTER 24 HOURS  |              |
| 48P    | P-A BOTTLE POSITIVE AFTER 48 HOURS  |              |
| 72P    | P-A BOTTLE POSITIVE AFTER 72 HOURS  |              |
| 96P    | P-A BOTTLE POSITIVE AFTER 96 HOURS  |              |
| 99P    | P-A BOTTLE POSITIVE AFTER 120 HOURS |              |

COMPUTED VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

<A VALUE WITH A REMARK WHICH HAS A  
COMMENT CODE OF PT (AS ABOVE) USED IN  
COMPUTATIONS

NOTE: VALUES WITH COMMENT CODE OF PE  
ARE NOT USED IN COMPUTATIONS

REMARK CODES APPEAR TO THE RIGHT OF THE VALUE I.E. 435.56<T

## 1987 WATER QUALITY DATA REGION 1

1

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OWEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91 U T M: 17 0503200.0 4935400.0 4 REGION: 01 DISTANCE: 1.609

| *=INTERIM | TEST-NAME:           | FWSADP | FGPROJ   | ALKT  | CLIDUR   | CLIDUR   | COND25   | CUUT       | DO       | FCMF     | FSMF  |
|-----------|----------------------|--------|----------|-------|----------|----------|----------|------------|----------|----------|-------|
| SAMPLE    |                      | SAMPLE | PROJECT  | ALK   | CHLORIDE | CHLORIDE | CONDUCT. | COPPER     | DISOLVED | COLIFORM | FECAL |
| DATE      | HOUR                 | DEPTH  | SUB-PROJ | TOTAL | UNF.REAC | UNF.REAC | 25C      | UNF.TOT.   | OXYGEN   | MF       | MF    |
| YYMMDD    | LMT                  | NUMBER | CODE     | MG/L  | MG/L     | MG/L     | UMHO/CM  | MG/L       | MG/L     | CNT      | CNT   |
|           |                      | M      | AS CAC03 | AS CL | AS CL-   | AT 25 C  | AS CU    | AS O       | /100ML   | /100ML   |       |
| 870126    | 1436                 | 40608  | 0101     | 262.0 |          | 19.500   | 565.0    | 0.001      | 15.0     |          |       |
| 870324    | 0749                 | 40632  | 0101     | 164.0 |          | 8.500    | 352.0    | 0.001<M    | 13.0     | 28       | 20    |
| 870526    | 1507                 | 40656  | 0101     | 249.0 |          | 22.000   | 570.0    | 0.003      | 11.0     | 108      | 60    |
| 870727    | 1533                 | 40680  | 0101     | 246.0 |          | 26.000   | 550.0    | NO DATA BT | 11.5     | 100      | 280   |
| 870929    | 0749                 | 40704  | 0101     | 290.1 | 26.360   |          | 630.0    | 0.003      | 9.5      | 760      | 80AID |
| 871125    | 1217                 | 40728  | 0101     | 200.6 | 13.750   |          | 458.0    | 0.001<     | 15.0     | 204      | 324   |
|           | MAXIMUM              | 0.30   |          | 290.1 | 26.360   | 26.000   | 630.0    | 0.003      | 15.0     | 760      | 324   |
|           | ARITH MEAN           | 0.30   |          | 235.3 | 20.055   | 19.000   | 520.8    | 0.002<A    | 12.5     | 240      | 153   |
|           | GEOM MEAN            |        |          | 231.3 | 19.038   | 17.547   | 511.9    |            | 12.3     | 136      | 97    |
|           | MINIMUM              | 0.30   |          | 164.0 | 13.750   | 8.500    | 352.0    | 0.001      | 9.5      | 28       | 20    |
|           | STD DEV (GEOM *)     |        |          | 45.4  | 8.917    | 7.494    | 99.6     |            | 2.2      | 3*       | 3*    |
|           | # SAMP IN STATISTICS | 6      |          | 6     | 2        | 4        | 6        | 4          | 6        | 5        | 5     |
|           | % SAMP (EXCLUDED)    |        |          |       |          |          |          | 20         |          |          |       |

| *=INTERIM | TEST-NAME:           | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH         | PP04UR   | PPUT     |
|-----------|----------------------|--------|--------|----------|----------|----------|----------|----------|------------|----------|----------|
| SAMPLE    |                      |        |        | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |            | PO4      | PHOSPHOR |
| DATE      | HOUR                 | STREAM | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |            | UNF.REAC | UNF.TOT. |
| YYMMDD    | LMT                  | COND.  | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH         | MG/L     | MG/L     |
|           |                      |        | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |            | AS P     | AS P     |
| 870126    | 1436                 | 40608  | 4      | 1.0      | 0.005<   | 0.010<   | 1.000    | 0.003<   | 8.09       | 0.001    | 0.011    |
| 870324    | 0749                 | 40632  | 6      | 2.5      | 0.015    | 0.010<   | 0.400    | 0.003<   | 8.13       | 0.010    | 0.040    |
| 870526    | 1507                 | 40656  | 6      | 13.0     | 0.005<   | 0.010<   | 0.900    | 0.003<   | 8.32       | 0.003    | 0.013    |
| 870727    | 1533                 | 40680  | 6      | 25.0     | 0.030    | 0.010<   | 0.500    | 0.580    | NO DATA BT | 8.73     | 0.001<   |
| 870929    | 0749                 | 40704  | 6      | 15.0     | 0.025    | 0.010    | 0.900    | 0.600    | 0.003<     | 8.34     | 0.006    |
| 871125    | 1217                 | 40728  | 6      | 2.0      | 0.016    | 0.010<   | 1.500    | 0.660    | 0.003<     | 8.02     | 0.019    |
|           | MAXIMUM              |        | 25.0   | 0.030    | 0.010    | 1.500    | 0.670    |          | 8.73       | 0.019    | 0.040    |
|           | ARITH MEAN           |        | 9.7    | 0.021    | 0.010    | 0.867    | 0.595    |          | 8.27       | 0.008    | 0.025    |
|           | GEOM MEAN            |        | 5.4    |          |          | 0.790    | 0.592    |          | 8.27       |          | 0.023    |
|           | MINIMUM              |        | 1.0    | 0.015    | 0.010    | 0.400    | 0.500    |          | 8.02       | 0.001    | 0.011    |
|           | STD DEV (GEOM *)     |        | 9.6    |          |          | 0.393    | 0.064    |          | 0.26       |          | 0.011    |
|           | # SAMP IN STATISTICS |        | 6      | 4        | 1        | 6        | 6        |          | 6          | 5        | 6        |
|           | % SAMP (EXCLUDED)    |        |        | 33       | 83       |          |          |          |            | 16       |          |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

2

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OMEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91 U T M: 17 0503200.0 4935400.0 4 REGION: 01 DISTANCE: 1.609

| *=INTERIM TEST-NAME: |      | RSP     | TURB     | ZNUT     |
|----------------------|------|---------|----------|----------|
|                      |      |         |          | ZINC     |
| SAMPLE               |      | RESIDUE |          | UNF.TOT. |
| DATE                 | HOUR | PARTIC. | TURB'ITY | MG/L     |
| YYMMDD               | LMT  | MG/L    | FTU      | AS ZN    |
| 870126               | 1436 | 40608   | 5.0<     | 4.30     |
| 870324               | 0749 | 40632   | 16.7     | 13.50    |
| 870526               | 1507 | 40656   | 5.0<     | 3.80     |
| 870727               | 1533 | 40680   | 6.2      | 5.40     |
| 870929               | 0749 | 40704   | 6.3      | 6.50     |
| 871125               | 1217 | 40728   | 11.6     | 1.76     |
| MAXIMUM              |      | 16.7    | 13.50    | 0.004    |
| ARITH MEAN           |      | 10.2    | 5.88     | 0.003    |
| GEOM MEAN            |      |         | 4.89     | 0.003    |
| MINIMUM              |      | 6.2     | 1.76     | 0.003    |
| STD DEV (GEOM *)     |      |         | 4.06     | 0.001    |
| # SAMP IN STATISTICS |      | 4       | 6        | 5        |
| % SAMP (EXCLUDED)    |      | 33      |          |          |



## 1987 WATER QUALITY DATA REGION 1

1

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OWEN SOUND  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STATION ID: 03-0015-002-02

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91 U T M: 17 0503200.0 4935400.0 4 REGION: 01 DISTANCE: 1.609

| *=INTERIM TEST-NAME:     |             | FWSADP           | FGPROJ     | ALKT                        | CLIDUR                           | CLIDUR                                | COND25                                 | CUUT                                  | DO                                  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML |
|--------------------------|-------------|------------------|------------|-----------------------------|----------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------------|--|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISOLVED<br>OXYGEN<br>MG/L<br>AS O               |  |
| 870126                   | 1436        | 40608            | 0.30       | 0101                        | 262.0                            |                                       | 19.500                                 | 565.0                                 | 0.001                               | 15.0   |  |
| 870324                   | 0749        | 40632            | 0.30       | 0101                        | 164.0                            |                                       | 8.500                                  | 352.0                                 | 0.001<W                             | 13.0   | 20   |
| 870526                   | 1507        | 40656            | 0.30       | 0101                        | 249.0                            |                                       | 22.000                                 | 570.0                                 | 0.003                               | 11.0   | 60   |
| 870727                   | 1533        | 40680            | 0.30       | 0101                        | 246.0                            |                                       | 26.000                                 | 550.0                                 | NO DATA BT                          | 11.5   | 280  |
| 870929                   | 0749        | 40704            | 0.30       | 0101                        | 290.1                            | 26.360                                |  | 630.0                                 | 0.003                               | 9.5  | 80AID  |
| 871125                   | 1217        | 40728            | 0.30       | 0101                        | 200.6                            | 13.750                                |  | 458.0                                 | 0.001<                              | 15.0   | 324  |
| MAXIMUM                  |             | 0.30             |            |                             | 290.1                            | 26.360                                | 26.000                                 | 630.0                                 | 0.003                               | 15.0   | 324  |
| ARITH MEAN               |             | 0.30             |            |                             | 235.3                            | 20.055                                | 19.000                                 | 520.8                                 | 0.002<A                             | 12.5   | 153  |
| GEOM MEAN                |             |                  |            |                             | 231.3                            | 19.038                                | 17.547                                 | 511.9                                 |                                     | 12.3   | 97   |
| MINIMUM                  |             | 0.30             |            |                             | 164.0                            | 13.750                                | 8.500                                  | 352.0                                 | 0.001                               | 9.5  | 20   |
| STD DEV (GEOM *)         |             |                  |            |                             | 45.4                             | 8.917                                 | 7.494                                  | 99.6                                  |                                     | 2.2  | 3*   |
| # SAMP IN STATISTICS     |             | 6                |            |                             | 6                                | 2                                     | 4                                      | 6                                     | 4                                   | 6  | 5  |
| % SAMP (EXCLUDED)        |             |                  |            |                             |                                  |                                       |  | 20                                    |                                     |  | 5  |

| *=INTERIM TEST-NAME:     |             | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT                      | PH   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P |
|--------------------------|-------------|------------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|---------------------------|------|---|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH   |   |  |
| 870126                   | 1436        | 40608            | 4               | 1.0                      | 0.005<                   | 0.010<                   | 1.000                       | 0.500                     | 8.09 | 0.001                                     | 0.011  |
| 870324                   | 0749        | 40632            | 6               | 2.5                      | 0.015                    | 0.010<                   | 0.400                       | 0.670                     | 8.13 | 0.010                                     | 0.040  |
| 870526                   | 1507        | 40656            | 6               | 13.0                     | 0.005<                   | 0.010<                   | 0.900                       | 0.560                     | 8.32 | 0.003                                     | 0.013  |
| 870727                   | 1533        | 40680            | 6               | 25.0                     | 0.030                    | 0.010<                   | 0.500                       | 0.580                     | 8.73 | 0.001<                                    | 0.026  |
| 870929                   | 0749        | 40704            | 6               | 15.0                     | 0.025                    | 0.010                    | 0.900                       | 0.600                     | 8.34 | 0.006                                     | 0.026  |
| 871125                   | 1217        | 40728            | 6               | 2.0                      | 0.016                    | 0.010<                   | 1.500                       | 0.660                     | 8.02 | 0.019                                     | 0.034  |
| MAXIMUM                  |             |                  |                 | 25.0                     | 0.030                    | 0.010                    | 1.500                       | 0.670                     | 8.73 | 0.019                                     | 0.040  |
| ARITH MEAN               |             |                  |                 | 9.7                      | 0.021                    | 0.010                    | 0.867                       | 0.595                     | 8.27 | 0.008                                     | 0.025  |
| GEOM MEAN                |             |                  |                 | 5.4                      |                          |                          | 0.790                       | 0.592                     | 8.27 |   | 0.023  |
| MINIMUM                  |             |                  |                 | 1.0                      | 0.015                    | 0.010                    | 0.400                       | 0.500                     | 8.02 | 0.001                                     | 0.011  |
| STD DEV (GEOM *)         |             |                  |                 | 9.6                      |                          |                          | 0.393                       | 0.064                     | 0.26 |   | 0.011  |
| # SAMP IN STATISTICS     |             |                  |                 | 6                        | 4                        | 1                        | 6                           | 6                         | 6    | 5   | 6  |
| % SAMP (EXCLUDED)        |             |                  |                 |                          | 33                       | 83                       |                             |                           |      | 16  |  |

(CONT'D)

## 1987 WATER QUALITY DATA REGION 1

2

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OMEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91 U T M: 17 0503200.0 4935400.0 4 REGION: 01 DISTANCE: 1.609

| *=INTERIM TEST-NAME: |      | RSP     | TURB     | ZNUT     |
|----------------------|------|---------|----------|----------|
|                      |      |         |          | ZINC     |
| SAMPLE               |      | RESIDUE |          | UNF.TOT. |
| DATE                 | HOUR | PARTIC. | TURB'ITY | MG/L     |
| YYMMDD               | LMT  | MG/L    | FTU      | AS ZN    |
| 870126               | 1436 | 40608   | 5.0<     | 4.30     |
| 870324               | 0749 | 40632   | 16.7     | 13.50    |
| 870526               | 1507 | 40656   | 5.0<     | 3.80     |
| 870727               | 1533 | 40680   | 6.2      | 5.40     |
| 870929               | 0749 | 40704   | 6.3      | 6.50     |
| 871125               | 1217 | 40728   | 11.6     | 1.76     |
| MAXIMUM              |      | 16.7    | 13.50    | 0.004    |
| ARITH MEAN           |      | 10.2    | 5.88     | 0.003    |
| GEOM MEAN            |      |         | 4.89     | 0.003    |
| MINIMUM              |      | 6.2     | 1.76     | 0.003    |
| STD DEV (GEOM *)     |      |         | 4.06     | 0.001    |
| # SAMP IN STATISTICS |      | 4       | 6        | 5        |
| % SAMP (EXCLUDED)    |      | 33      |          |          |

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT CONCESSION 18 ABOVE INGLIS FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FB007

STATION ID: 03-0016-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 002  
 2050

LAT: 44 31 21.20 LONG: 080 55 53.11 U T M: 17 0505450.0 4929700.0 4 REGION: 01 DISTANCE: 7.403

| *=INTERIM TEST-NAME: |      | FMSADP | FGPROJ   | ALKT     | ASUT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FEUT     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          | ALK      | ARSENIC  | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | FECAL    | IRON     |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | COLIFORM | UNF.TOT. |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MG/L     |
| YYMMDD               | LMT  | M      | CODE     | AS CAC03 | AS AS    | AS CL    | AS CL-   | AT 25 C  | AS CU    | CNT      | AS FE    |
| 870126               | 1547 | 40609  | 0101     | 259.0    | 0.001<   |          | 11.500   | 535.0    | 0.001    |          | 0.096    |
| 870324               | 0821 | 40633  | 0101     | 176.0    | 0.001<   |          | 7.000    | 371.0    | 0.001<W  | 4        | 0.210    |
| 870526               | 1548 | 40657  | 0101     | 254.0    | 0.001<   |          | 9.500    | 540.0    | 0.001    | 232      | 0.200    |
| 870727               | 1615 | 40681  | 0101     | 262.0    | 0.001<   |          | 10.000   | 510.0    | 0.001<W  | 140      | 0.260    |
| 870929               | 0819 | 40705  | 0101     | 258.3    | 0.001<   | 9.220    |          | 515.0    | 0.001<   | 150      | 0.170    |
| 871125               | 1054 | 40729  | 0101     | 244.7    | 0.001<   | 9.500    |          | 491.0    | 0.001    | 200      | 0.110    |
| MAXIMUM              |      | 0.30   |          | 262.0    |          | 9.500    | 11.500   | 540.0    | 0.001    | 232      | 0.260    |
| ARITH MEAN           |      | 0.30   |          | 242.3    |          | 9.360    | 9.500    | 493.7    | 0.001<A  | 145      | 0.174    |
| GEOM MEAN            |      |        |          | 240.1    |          | 9.359    | 9.351    | 489.9    |          | 83       | 0.164    |
| MINIMUM              |      | 0.30   |          | 176.0    |          | 9.220    | 7.000    | 371.0    | 0.001    | 4        | 0.096    |
| STD DEV (GEOM *)     |      |        |          | 33.0     |          | 0.198    | 1.871    | 62.7     |          | 6*       | 0.063    |
| # SAMP IN STATISTICS |      | 6      |          | 6        |          | 2        | 4        | 6        | 5        | 5        | 6        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 16       |          |          |

| *=INTERIM TEST-NAME: |      | FMSF     | FWFLOW | FWSTRC | FWTEMP | NIUT     | NNHTUR   | MNO2UR   | MNO3UR   | NNTKUR   | PBUT     |
|----------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|----------|
|                      |      | FECAL    |        |        |        | NICKEL   | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |
| SAMPLE               |      | STREPCUS | STREAM |        | WATER  | UNF.TOT. | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |
| DATE                 | HOUR | MF       | FLOW   |        | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |
| YYMMDD               | LMT  | CNT      | M3     | STREAM | DEG.C  | AS NI    | AS N     | AS N     | AS N     | AS N     | AS PB    |
|                      |      | /100ML   | /S     | COND.  |        |          |          |          |          |          |          |
| 870126               | 1547 | 40609    | 2.400  | 6      | 1.0    | 0.002<   | 0.020    | 0.010<   | 0.900    | 0.320    | 0.003<   |
| 870324               | 0821 | 40633    | 12     | 10.700 | 2.5    | 0.002<   | 0.015    | 0.010<   | 0.700    | 0.430    | 0.003<   |
| 870526               | 1548 | 40657    | 32     | 1.890  | 14.0   | 0.002<   | 0.025    | 0.010<   | 0.800    | 0.350    | 0.003<   |
| 870727               | 1615 | 40681    | 436    | 0.838  | 23.0   | 0.002<   | 0.055    | 0.010    | 0.400    | 0.460    | 0.003<   |
| 870929               | 0819 | 40705    | 240    | 1.080  | 16.0   | 0.001<   | 0.020    | 0.010    | 0.600    | 0.420    | 0.003<   |
| 871125               | 1054 | 40729    | 352    | 9.400  | 1.5    | 0.001<   | 0.009    | 0.010<   | 1.600    | 0.380    | 0.003<   |
| MAXIMUM              |      | 436      | 10.700 |        | 23.0   |          | 0.055    | 0.010    | 1.600    | 0.460    |          |
| ARITH MEAN           |      | 214      | 4.385  |        | 9.7    |          | 0.024    | 0.010    | 0.833    | 0.393    |          |
| GEOM MEAN            |      | 107      | 2.729  |        | 5.2    |          | 0.021    |          | 0.761    | 0.390    |          |
| MINIMUM              |      | 12       | 0.838  |        | 1.0    |          | 0.009    | 0.010    | 0.400    | 0.320    |          |
| STD DEV (GEOM *)     |      | 5*       | 4.443  |        | 9.3    |          | 0.016    |          | 0.413    | 0.053    |          |
| # SAMP IN STATISTICS |      | 5        | 6      |        | 6      |          | 6        | 2        | 6        | 6        |          |
| % SAMP (EXCLUDED)    |      |          |        |        |        |          |          | 66       |          |          |          |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

4

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT CONCESSION 18 ABOVE INGLIS FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FB007

STATION ID: 03-0016-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 002  
 2050

LAT: 44 31 21.20 LONG: 080 55 53.11

U T M: 17 0505450.0 4929700.0 4

REGION: 01

DISTANCE: 7.403

| *=INTERIM TEST-NAME: |       | PH     | PP04UR<br>P04 | PPUT<br>PHOSPHOR | RSP     | TURB     | ZNUT<br>ZINC |
|----------------------|-------|--------|---------------|------------------|---------|----------|--------------|
| AMPLE                |       |        | UNF.REAC      | UNF.TOT.         | RESIDUE |          | UNF.TOT.     |
| DATE                 | HOURL | SAMPLE | MG/L          | MG/L             | PARTIC. | TURB'ITY | MG/L         |
| YYMMDD               | LMT   | NUMBER | AS P          | AS P             | MG/L    | FTU      | AS ZN        |
| 870126               | 1547  | 40609  | 7.79          | 0.002            | 0.007   | 5.0<     | 4.30         |
| 870324               | 0821  | 40633  | 7.90          | 0.011            | 0.024   | 6.0      | 8.40         |
| 870526               | 1548  | 40657  | 8.08          | 0.004            | 0.016   | 5.0<     | 4.20         |
| 870727               | 1615  | 40681  | 8.33          | 0.001            | 0.024   | 7.9      | 6.50         |
| 870929               | 0819  | 40705  | 8.15          | 0.004            | 0.020   | 8.6      | 5.40         |
| 871125               | 1054  | 40729  | 7.90          | 0.011            | 0.030   | 5.0<     | 2.20         |
| MAXIMUM              |       | 8.33   | 0.011         | 0.030            | 8.6     | 8.40     | 0.004        |
| ARITH MEAN           |       | 8.02   | 0.005         | 0.020            | 7.5     | 5.17     | 0.002<A      |
| GEOM MEAN            |       | 8.02   | 0.004         | 0.018            |         | 4.77     | 0.002<A      |
| MINIMUM              |       | 7.79   | 0.001         | 0.007            | 6.0     | 2.20     | 0.001        |
| STD DEV (GEOM *)     |       | 0.20   | 0.004         | 0.008            |         | 2.13     | 0.001<A      |
| # SAMP IN STATISTICS |       | 6      | 6             | 6                | 3       | 6        | 6            |
| % SAMP (EXCLUDED)    |       |        |               |                  | 50      |          |              |

## 1987 WATER QUALITY DATA REGION 1

5

B.O.W./ SITE: TELFER CREEK  
 SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

STATION ID: 03-0017-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: TELFER CREEK

STORET CODE: 02  
 002  
 2060

LAT: 44 37 23.20 LONG: 080 52 30.75 U T M: 17 0509900.0 4940875.0 4 REGION: 01 DISTANCE: 0.483

| *=INTERIM TEST-NAME: |      | FWSADP           | FGPROJ               | ALKT                        | ASUT                             | CCNAUR<br>CYANIDE<br>AVAIL           | CDUT                                 | CLIDUR                                | CLIDUR                                 | COND25                                | CRUT                                  |
|----------------------|------|------------------|----------------------|-----------------------------|----------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR |
| 870126               | 1358 | 40607            | 0.30                 | 0101                        | 278.0                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 12.500                                 | 575.0                                 | 0.001<                                |
| 870225               | 0858 | 40618            | 0.30                 | 0101                        |                                  | 0.001<                               | 0.011                                | 0.0030<                               |  |                                       | 0.005<                                |
| 870323               | 1612 | 40631            | 0.30                 | 0101                        | 223.0                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 10.500                                 | 467.0                                 | 0.001                                 |
| 870427               | 1148 | 40642            | 0.30                 | 0101                        | 247.0                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 10.000                                 | 495.0                                 | 0.001<                                |
| 870526               | 1437 | 40655            | 0.30                 | 0101                        | 224.0                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 9.000                                  | 474.0                                 | 0.001<                                |
| 870622               | 1350 | 40666            | 0.30                 | 0101                        | 215.0                            | NO DATA LA                           | 0.001<W                              | NO DATA BT                            | 16.500                                 | 463.0                                 | NO DATA BT                            |
| 870727               | 1437 | 40679            | 0.30                 | 0101                        | 190.0                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 14.000                                 | 400.0                                 | 0.001<                                |
| 870825               | 1108 | 40690            | 0.30                 | 0101                        | 212.0                            | 0.001<                               | NO DATA IS                           | 0.0003<                               | 21.000                                 | 483.0                                 | 0.004                                 |
| 870928               | 1541 | 40703            | 0.30                 | 0101                        | 206.7                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 16.920                                 | 475.0                                 | 0.002                                 |
| 871028               | 0905 | 40714            | 0.30                 | 0101                        | 236.8                            | 0.001<                               | 0.001<W                              | 0.0003<                               | 21.440                                 | 595.0                                 | 0.003                                 |
| 871125               | 1137 | 40727            | 0.30                 | 0101                        | 241.7                            | 0.001<W                              |                                      | 0.0005                                | 17.720                                 | 545.0                                 | 0.002                                 |
| MAXIMUM              |      | 0.30             |                      |                             | 278.0                            | 0.001                                | 0.011                                | 0.0005                                | 21.440                                 | 595.0                                 | 0.004                                 |
| ARITH MEAN           |      | 0.30             |                      |                             | 227.4                            | 0.001<A                              | 0.002<A                              | 0.0005                                | 18.693                                 | 497.2                                 | 0.002                                 |
| GEOM MEAN            |      |                  |                      |                             | 226.2                            |                                      | 0.001<A                              |                                       | 18.594                                 | 494.1                                 |                                       |
| MINIMUM              |      | 0.30             |                      |                             | 190.0                            | 0.001                                | 0.001                                | 0.0005                                | 16.920                                 | 400.0                                 | 0.001                                 |
| STD DEV (GEOM *)     |      |                  |                      |                             | 24.7                             |                                      | 0.003<A                              |                                       | 2.412                                  | 58.4                                  |                                       |
| # SAMP IN STATISTICS |      | 11               |                      |                             | 10                               | 1                                    | 9                                    | 1                                     | 3                                      | 7                                     | 5                                     |
| % SAMP (EXCLUDED)    |      |                  |                      |                             |                                  | 90                                   |                                      | 90                                    |  |                                       | 50                                    |

| *=INTERIM TEST-NAME: |      | CUUT             | DO                                  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC          | FWTEMP                 | NIUT                                | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N |
|----------------------|------|------------------|-------------------------------------|--|---|--|-----------------|------------------------|-------------------------------------|--------------------------|---|
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>NUMBER | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISSOLVED<br>OXYGEN<br>MG/L<br>AS O              |   |  | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI |                          |   |
| 870126               | 1358 | 40607            | 0.001                               | 13.0   |   | 0.140  |                 | 1.0                    | 0.002<                              | 0.005<                   | 0.010<                                      |
| 870225               | 0858 | 40618            | 0.003<                              |  |   | 0.087  |                 |                        | 0.015<                              |                          |   |
| 870323               | 1612 | 40631            | 0.001<W                             | 13.0   | 104                                       | 0.890  | 20              | 7.5                    | 0.002<                              | 0.020                    | 0.010<                                      |
| 870427               | 1148 | 40642            | 0.001<W                             | 11.5   |   | 0.066  |                 |                        | 0.002<                              | 0.010                    | 0.020                                       |
| 870526               | 1437 | 40655            | 0.002                               | 11.5   | 600>                                      | 0.090  | 152             | 13.0                   | 0.002<                              | 0.015                    | 0.010<                                      |
| 870622               | 1350 | 40666            | NO DATA BT                          | 7.5  | 600>                                      | NO DATA BT                                       | 600>            | 18.0                   | NO DATA BT                          | 0.070                    | 0.030                                       |
| 870727               | 1437 | 40679            | 0.001<W                             | 11.0   | 100                                       | 0.092  | 272             | 28.0                   | 0.002<                              | 0.020                    | 0.010<                                      |
| 870825               | 1108 | 40690            | 0.001                               | 11.5   | 112                                       | 0.049  | 104             | 16.0                   | 0.001<                              | 0.020                    | 0.010                                       |
| 870928               | 1541 | 40703            | 0.001                               | 12.0   | 240                                       | 0.086  | 100             | 19.5                   | 0.001<                              | 0.015                    | 0.010                                       |
| 871028               | 0905 | 40714            | 0.001                               | 13.5   | 1500>                                     | 0.270  | 1500>           | 6.5                    | 0.001                               | 0.011                    | 0.010<                                      |
| 871125               | 1137 | 40727            | 0.001                               | 14.0   | 152                                       | 0.160  | 264             | 3.0                    | 0.001<                              | 0.009                    | 0.010<                                      |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

6

B.O.W./ SITE: TELFER CREEK  
 SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

STATION ID: 03-0017-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: TELFER CREEK

STORET CODE: 02  
 002  
 2060

LAT: 44 37 23.20 LONG: 080 52 30.75 U T M: 17 0509900.0 4940875.0 4 REGION: 01 DISTANCE: 0.483

| *INTERIM TEST-NAME:      |             | CUUT                 | DO                                  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N |
|--------------------------|-------------|----------------------|-------------------------------------|--|---|--|---------------------------|----------------------------------|---|--|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISOLVED<br>OXYGEN<br>MG/L<br>AS O               |   |  |                           |                                  |   |  |   |
|                          |             | MAXIMUM              | 0.002                               | 14.0   | 240                                       | 0.890  | 272                       | 28.0                             | 0.001                                       | 0.070  | 0.030                                       |
|                          |             | ARITH MEAN           | 0.001<A                             | 11.8   | 142                                       | 0.193  | 152                       | 12.5                             | 0.001                                       | 0.021  | 0.017                                       |
|                          |             | GEOM MEAN            |                                     | 11.7   |   | 0.127  |                           | 8.7                              |   |  |   |
|                          |             | MINIMUM              | 0.001                               | 7.5  | 100                                       | 0.049  | 20                        | 1.0                              | 0.001                                       | 0.009  | 0.010                                       |
|                          |             | STD DEV (GEOM *)     |                                     | 1.8  |   | 0.253  |                           | 8.8                              |   |  |   |
|                          |             | # SAMP IN STATISTICS | 9                                   | 10   | 5   | 10   | 6                         | 9                                | 1   | 9  | 4   |
|                          |             | % SAMP (EXCLUDED)    | 10                                  |  | 37  |  | 25                        |                                  | 90  | 10   | 60  |

| *INTERIM TEST-NAME:      |             | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH         | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | P1PCBT<br>PCB<br>TOTAL<br>NG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU |
|--------------------------|-------------|---|---|---|------------|---|--|--|--------------------------------|-----------------------------------|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                            |   |   |            |   |  |  |                                |                                   |                         |
| 870126                   | 1358        | 40607                                       | 0.900   | 0.250                                     | 0.003<     | 8.03                                      | 0.001  | 0.009  | 20<W                           | 5.0<                              | 3.40                    |
| 870225                   | 0858        | 40618                                       |   |   | 0.030<     |   |  |  | 20<W                           |                                   |                         |
| 870323                   | 1612        | 40631                                       | 1.100   | 0.380                                     | 0.005      | 8.34                                      | 0.013  | 0.042  | 4<                             | 31.8                              | 22.00                   |
| 870427                   | 1148        | 40642                                       | 1.200   | 0.260                                     | 0.003<     | 8.28                                      | 0.002  | 0.012  | 20<W                           | 5.0<                              | 2.20                    |
| 870526                   | 1437        | 40655                                       | 0.800   | 0.290                                     | 0.003<     | 8.25                                      | 0.002  | 0.005  | 4<                             | 5.0<                              | 2.20                    |
| 870622                   | 1350        | 40666                                       | 0.400   | 0.560                                     | NO DATA BT | 8.29                                      | 0.020  | 0.058  | 20                             | 7.7                               | 8.90                    |
| 870727                   | 1437        | 40679                                       | 0.100<  | 0.320                                     | 0.003<     | 8.74                                      | 0.001<                                       | 0.015  | 8                              | NO DATA NR                        | 5.0<                    |
| 870825                   | 1108        | 40690                                       | 0.200   | 0.260                                     | 0.008      | 8.36                                      | 0.006  | 0.008  | 4<                             | NO DATA IS                        | 3.0                     |
| 870928                   | 1541        | 40703                                       | 0.400   | 0.280                                     | 0.003<     | 8.56                                      | 0.010  | 0.020  | 8                              | 20<W                              | 1.7                     |
| 871028                   | 0905        | 40714                                       | 1.100   | 0.540                                     | 0.003<     | 8.11                                      | 0.030  | 0.052  | 4                              | 20<W                              | 9.3                     |
| 871125                   | 1137        | 40727                                       | 1.500   | 0.280                                     | 0.003<     | 7.96                                      | 0.017  | 0.024  | 28                             | 20<W                              | 5.0<                    |
|                          |             | MAXIMUM                                     | 1.500   | 0.560                                     | 0.008      | 8.74                                      | 0.030  | 0.058  | 28                             | 20                                | 31.8                    |
|                          |             | ARITH MEAN                                  | 0.844   | 0.342                                     | 0.006      | 8.29                                      | 0.011  | 0.024  | 14                             | 20<A                              | 10.7                    |
|                          |             | GEOM MEAN                                   |   | 0.327                                     |            | 8.29                                      |  | 0.018  |                                | 20<A                              | 3.97                    |
|                          |             | MINIMUM                                     | 0.200   | 0.250                                     | 0.005      | 7.96                                      | 0.001  | 0.005  | 4                              | 20                                | 1.7                     |
|                          |             | STD DEV (GEOM *)                            |   | 0.116                                     |            | 0.23                                      |  | 0.019  |                                | 0<A                               | 6.24                    |
|                          |             | # SAMP IN STATISTICS                        | 9   | 10  | 2          | 10  | 9  | 10   | 5                              | 8                                 | 5                       |
|                          |             | % SAMP (EXCLUDED)                           | 10  |   | 80         |   | 10   |  | 37                             |                                   | 10                      |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

7

B.O.W./ SITE: TELFER CREEK  
 SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

STATION ID: 03-0017-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: TELFER CREEK

STORET CODE: 02  
 002  
 2060

LAT: 44 37 23.20 LONG: 080 52 30.75 U T M: 17 0509900.0 4940875.0 4 REGION: 01 DISTANCE: 0.483

| *INTERIM TEST-NAME:  |      | X3245    | ZNUT              |
|----------------------|------|----------|-------------------|
|                      |      | 2,4,5    | ZINC              |
| SAMPLE               |      | TRCHLORO | UNF.TOT.          |
| DATE                 | HOUR | PHENOL   | MG/L              |
| YYMMDD               | LMT  | NUMBER   | AS ZN             |
| 870126               | 1358 | 40607    | 100<W 0.001<W     |
| 870225               | 0858 | 40618    | 100<W 0.003<      |
| 870323               | 1612 | 40631    | 100<W 0.001<W     |
| 870427               | 1148 | 40642    | 100<W 0.002       |
| 870526               | 1437 | 40655    | 100<W 0.005       |
| 870622               | 1350 | 40666    | 100<W NO DATA BT  |
| 870727               | 1437 | 40679    | NO DATA IS 0.001  |
| 870825               | 1108 | 40690    | NO DATA IS 0.002< |
| 870928               | 1541 | 40703    | 100<W 0.002       |
| 871028               | 0905 | 40714    | 100<W 0.003       |
| 871125               | 1137 | 40727    | 100<W 0.003       |
| MAXIMUM              |      | 100      | 0.005             |
| ARITH MEAN           |      | 100<A    | 0.002<A           |
| GEOM MEAN            |      | 100<A    |                   |
| MINIMUM              |      | 100      | 0.001             |
| STD DEV (GEOM *)     |      | 0<A      |                   |
| # SAMP IN STATISTICS |      | 8        | 8                 |
| % SAMP (EXCLUDED)    |      |          | 20                |

## 1987 WATER QUALITY DATA REGION 1

8

B.O.W./ SITE: BIGHEAD RIVER  
 SAMPLE POINT: AT CONC ROAD 8 AND 9 SOUTH OF OXMEAD  
 STATION TYPE: RIVER

STATION ID: 03-0030-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIGHEAD RIVER

STORET CODE: 02  
 002  
 2190

LAT: 44 34 32.16 LONG: 080 38 54.97 U T M: 17 0527900.0 4935650.0 4 REGION: 01 DISTANCE: 12.713

| *=INTERIM | TEST-NAME: | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FEUT     |
|-----------|------------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|           |            |                      |        |          | BOD      |          |          |          |          | FECAL    |          |
| SAMPLE    |            |                      |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | COLIFORM | IRON     |
| DATE      | HR         | SAMPLE               | SAMPLE | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | MF       | UNF.TOT. |
| YYMMDD    | LMT        | NUMBER               | DEPTH  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | CNT      | MG/L     |
|           |            |                      | M      | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | /100ML   | AS FE    |
| 870113    | 1330       | 36750                | 0.30   | 258.0    |          |          | 6.000    | 530.0    | 0.002    | 600>     | 0.120    |
| 870126    | 1315       | 40606                | 0.30   | 268.0    |          |          | 5.500    | 535.0    | 0.001 <W |          | 0.066    |
| 870217    | 1445       | 36751                | 0.30   | 277.0    |          |          | 5.500    | 550.0    | 0.003 <  | 32       | 0.010<   |
| 870224    | 1150       | 40617                | 0.30   | 266.0    |          |          | 5.500    | 535.0    | 0.003 <  |          | 0.079    |
| 870309    | 1130       | 36752                | 0.30   | 210.0    |          |          | 6.000    | 458.0    | 0.0030   | 4<       | 0.138    |
| 870323    | 1537       | 40630                | 0.30   | 201.0    |          |          | 4.500    | 409.0    | 0.001 <W | 4<       | 0.840    |
| 870324    | 1130       | 36753                | 0.30   | 189.0    |          |          | 7.000    | 392.0    | 0.018    |          | 1.200    |
| 870331    | 1230       | 36753                | 0.30   | 200.0    |          |          | 5.500    | 373.0    | 0.004    |          | 0.340    |
| 870406    | 1130       | 36754                | 0.30   | 189.0    |          |          | 4.500    | 396.0    | 0.001    |          | 0.390    |
| 870427    | 1112       | 40641                | 0.30   | 242.0    |          |          | 4.500    | 445.0    | 0.001 <W | 56       | 0.046    |
| 870526    | 1340       | 40654                | 0.30   | 238.0    |          |          | 4.500    | 481.0    | 0.001    | 252      | 0.100    |
| 870609    | 1115       | 36755                | 0.30   | 240.0    |          |          | 5.000    | 467.0    | 0.002    | 320      | 0.220    |
| 870622    | 1316       | 40665                | 0.30   | 226.0    |          |          | 5.000    | 436.0    | 0.001    | 100      | 0.280    |
| 870723    | 1315       | 36756                | 0.30   | 225.0    | 1.01     |          | 5.500    | 428.0    | 0.002    | 24       | 0.290    |
| 870727    | 1402       | 40678                | 0.30   | 214.0    |          |          | 5.000    | 383.0    | 0.001 <W | 36       | 0.250    |
| 870811    | 1045       | 36757                | 0.30   | 217.0    |          |          | 4.500    | 410.0    | 0.002    | 100      | 0.380    |
| 870825    | 0847       | 40689                | 0.30   | 212.0    |          |          | 5.000    | 407.0    | 0.002    | 16       | 0.160    |
| 870909    | 1030       | 36758                | 0.30   |          |          | 5.000    |          | 412.0    | 0.003    | 52       |          |
| 870928    | 1436       | 40702                | 0.30   | 231.2    |          | 4.780    |          | 430.0    | 0.001 <  | 220      | 0.250    |
| 871013    | 0930       | 36759                | 0.30   | 255.0    |          | 7.060    |          | 491.0    | 0.002    | 80AID    | 0.140    |
| 871027    | 1150       | 40713                | 0.30   | 240.8    |          | 6.278    |          | 493.0    | 0.001    | 630      | 0.190    |
| 871103    | 1100       | 36760                | 0.30   | 246.9    |          | 6.680    |          | 483.0    | 0.003    | 132      | 0.210    |
| 871124    | 1206       | 40726                | 0.30   | 222.7    |          | 6.370    |          | 446.0    |          |          |          |
| 871214    | 1015       | 36761                | 0.30   | 236.9    |          | 5.380    |          | 439.0    | 0.006    | 72       | 0.150    |
|           |            | MAXIMUM              | 0.30   | 277.0    | 1.01     | 7.060    | 7.000    | 550.0    | 0.018    | 630      | 1.200    |
|           |            | ARITH MEAN           | 0.30   | 230.7    | 1.01     | 5.934    | 5.235    | 451.2    | 0.003 <A | 141      | 0.278    |
|           |            | GEOM MEAN            |        | 229.4    |          | 5.877    | 5.195    | 448.4    |          |          |          |
|           |            | MINIMUM              | 0.30   | 189.0    | 1.01     | 4.780    | 4.500    | 373.0    | 0.001    | 16       | 0.046    |
|           |            | STD DEV (GEOM *)     |        | 24.7     |          | 0.879    | 0.687    | 51.6     |          |          |          |
|           |            | # SAMP IN STATISTICS | 24     | 23       | 1        | 7        | 17       | 24       | 20       | 15       | 21       |
|           |            | % SAMP (EXCLUDED)    |        |          |          |          |          |          | 13       | 16       | 4        |

( C O N T D )



## 1987 WATER QUALITY DATA REGION 1

9

B.O.M./ SITE: BIGHEAD RIVER  
 SAMPLE POINT: AT CONC ROAD 8 AND 9 SOUTH OF OXHEAD  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIGHEAD RIVER

STATION ID: 03-0030-002-02

STORET CODE: 02  
 002  
 2190

LAT: 44 34 32.16 LONG: 080 38 54.97 U T M: 17 0527900.0 4935650.0 4 REGION: 01 DISTANCE: 12.713

| *INTERIM TEST-NAME:      |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH     | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |        |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|--------|---|--------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |        |   |        |
| 870113                   | 1330        | 36750  | 112                       | 6                                | 6.0  | 0.010                                       | 0.010<                                      | 1.000   | 0.290                                     | 0.003< | 8.37                                      | 0.002  |
| 870126                   | 1315        | 40606  |                           | 4                                | 1.0  | 0.005                                       | 0.010<                                      | 0.900   | 0.280                                     | 0.003< | 7.95                                      | 0.001  |
| 870217                   | 1445        | 36751  | 4                         | 4                                | 3.0  | 0.015                                       | 0.010<                                      | 0.900   | 0.290                                     | 0.030< | 8.01                                      | 0.007  |
| 870224                   | 1150        | 40617  |                           | 4                                | 1.0  | 0.050                                       | 0.010                                       | 1.100   | 0.350                                     | 0.030< | 7.98                                      | 0.001< |
| 870309                   | 1130        | 36752  | 250                       |                                  | 1.0  | 0.105                                       | 0.010                                       | 1.200   | 0.530                                     | 0.003< | 8.00                                      | 0.019  |
| 870323                   | 1537        | 40630  | 16                        | 6                                | 6.0  | 0.075                                       | 0.010<                                      | 1.000   | 0.600                                     | 0.004  | 8.18                                      | 0.017  |
| 870324                   | 1130        | 36753  |                           | 3                                |  | 0.035                                       | 0.010<                                      | 0.800   | 0.500                                     | 0.005  | 7.95                                      | 0.011  |
| 870331                   | 1230        | 36753  |                           |                                  |  | 0.005                                       | 0.010<                                      | 0.005<  | 0.430                                     | 0.004  | 8.30                                      | 0.001< |
| 870406                   | 1130        | 36754  |                           | 3                                | 0.6  | 0.025                                       | 0.010<                                      | 1.000   | 0.420                                     | 0.003< | 8.06                                      | 0.010  |
| 870427                   | 1112        | 40641  | 32                        | 6                                |  | 0.010                                       | 0.020                                       | 0.800   | 0.300                                     | 0.003< | 8.26                                      | 0.002  |
| 870526                   | 1340        | 40654  | 16                        | 6                                | 14.0   | 0.005                                       | 0.010<                                      | 0.900   | 0.300                                     | 0.003< | 8.30                                      | 0.004  |
| 870609                   | 1115        | 36755  | 88                        | 6                                | 18.0   | 0.035                                       | 0.020                                       | 0.600   | 0.450                                     | 0.003< | 8.21                                      | 0.018  |
| 870622                   | 1316        | 40665  | 400                       | 6                                | 20.0   | 0.080                                       | 0.020                                       | 0.200   | 0.490                                     | 0.003< | 8.29                                      | 0.002  |
| 870723                   | 1315        | 36756  | 16                        | 6                                | 30.0   | 0.025                                       | 0.010                                       | 0.300   | 0.540                                     | 0.004  | 8.51                                      | 0.003  |
| 870727                   | 1402        | 40678  | 24                        | 6                                | 20.5   | 0.020                                       | 0.010<                                      | 0.100<  | 0.460                                     | 0.003< | 8.80                                      | 0.001< |
| 870811                   | 1045        | 36757  | 16                        | 6                                | 22.0   | 0.040                                       | 0.030                                       | 0.100   | 0.530                                     | 0.003< | 8.46                                      | 0.001  |
| 870825                   | 0847        | 40689  | 16                        | 6                                | 17.0   | 0.030                                       | 0.010                                       | 0.200   | 0.420                                     | 0.009  | 8.60                                      | 0.006  |
| 870909                   | 1030        | 36758  | 32                        | 6                                | 21.0   | 0.020                                       | 0.010                                       | 0.100<  | 0.350                                     | 0.003< | 8.54                                      | 0.007  |
| 870928                   | 1436        | 40702  | 196                       | 6                                | 18.0   | 0.030                                       | 0.010                                       | 0.500   | 0.420                                     | 0.003< | 8.53                                      | 0.006  |
| 871013                   | 0930        | 36759  | 70AID                     | 6                                | 8.0  | 0.005<                                      | 0.010<                                      | 0.400   | 0.015                                     | 0.003< | 8.15                                      | 0.011  |
| 871027                   | 1150        | 40713  | 620                       | 6                                | 6.5  | 0.008                                       | 0.010<                                      | 0.600   | 0.460                                     | 0.003< | 8.11                                      | 0.017  |
| 871103                   | 1100        | 36760  | 68                        | 6                                | 13.0   | 0.005<                                      | 0.010<                                      | 0.700   | 0.370                                     | 0.003< | 8.17                                      | 0.008  |
| 871124                   | 1206        | 40726  |                           | 6                                | 3.0  | 0.009                                       | 0.010<                                      | 1.500   | 0.600                                     |        | 7.88                                      | 0.007  |
| 871214                   | 1015        | 36761  | 212                       | 6                                | 3.0  | 0.057                                       | 0.070                                       | 0.500   | 0.480                                     | 0.003< | 7.97                                      | 0.009  |
| MAXIMUM                  |             | 620  |                           |                                  | 30.0   | 0.105                                       | 0.070                                       | 1.500   | 0.600                                     | 0.009  | 8.80                                      | 0.019  |
| ARITH MEAN               |             | 122  |                           |                                  | 11.1   | 0.032                                       | 0.020                                       | 0.724   | 0.411                                     | 0.005  | 8.23                                      | 0.008  |
| GEOM MEAN                |             | 53   |                           |                                  | 6.6  |   |   |   | 0.363                                     |        | 8.23                                      |        |
| MINIMUM                  |             | 4  |                           |                                  | 0.6  | 0.005                                       | 0.010                                       | 0.100   | 0.015                                     | 0.004  | 7.88                                      | 0.001  |
| STD DEV (GEOM *)         |             | 4*   |                           |                                  | 8.9  |   |   |   | 0.128                                     |        | 0.24                                      |        |
| # SAMP IN STATISTICS     |             | 18   |                           |                                  | 21   | 22  | 11  | 21  | 24  | 5      | 24  | 21     |
| % SAMP (EXCLUDED)        |             |  |                           |                                  |  | 8   | 54  | 12  |   | 78     |   | 12     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

10

B.O.W./ SITE: BIGHEAD RIVER  
 SAMPLE POINT: AT CONC ROAD 8 AND 9 SOUTH OF OXMEAD  
 STATION TYPE: RIVER

STATION ID: 03-0030-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIGHEAD RIVER

STORET CODE: 02  
 002  
 2190

LAT: 44 34 32.16 LONG: 080 38 54.97

U T M: 17 0527900.0 4935650.0 4

REGION: 01

DISTANCE: 12.713

| *INTERIM TEST-NAME:  |      | PPUT                 | PSAMF<br>PSEUDOWN | RSP                | TCMF<br>COLIFORM | TCMFBK<br>COLIFORM | TURB            | ZNUT             |         |
|----------------------|------|----------------------|-------------------|--------------------|------------------|--------------------|-----------------|------------------|---------|
|                      |      | PHOSPHOR<br>UNF.TOT. | MF<br>AERUG.      | RESIDUE<br>PARTIC. | MF<br>TOTAL      | BCKGRD<br>TOTAL MF |                 | ZINC<br>UNF.TOT. |         |
| SAMPLE<br>DATE       | HR   | MG/L                 | CNT               | MG/L               | CNT              | CNT                | TURB'ITY<br>FTU | MG/L             |         |
| YYMMDD               | LMT  | AS P                 | /100ML            |                    | /100ML           | /100ML             |                 | AS ZN            |         |
| 870113               | 1330 | 36750                | 0.046             | 16                 | 5.0<             | 7700               | 7400            | 2.00             | 0.018   |
| 870126               | 1315 | 40606                | 0.008             |                    | 5.0<             |                    |                 | 1.41             | 0.001<W |
| 870217               | 1445 | 36751                | 0.017             | 4<                 | 2.4              | 110                | 450             | 3.00             | 0.003   |
| 870224               | 1150 | 40617                | 0.048             |                    | 2.0              |                    |                 | 1.57             | 0.003<  |
| 870309               | 1130 | 36752                | 0.045             | 4<                 | 9.6              | 140                | 1830            | 10.20            | 0.003   |
| 870323               | 1537 | 40630                | 0.072             | 4<                 | 36.9             |                    |                 | 25.00            | 0.001<W |
| 870324               | 1130 | 36753                | 0.075             |                    | 22.5             |                    |                 | 18.50            | 0.029   |
| 870331               | 1230 | 36753                | 0.040             |                    | 16.1             |                    |                 | 11.50            | 0.004   |
| 870406               | 1130 | 36754                | 0.052             |                    | 19.6             |                    |                 | 14.10            | 0.003   |
| 870427               | 1112 | 40641                | 0.010             | 4<                 | 5.0<             |                    |                 | 2.20             | 0.001   |
| 870526               | 1340 | 40654                | 0.013             | 4<                 | 5.0<             |                    |                 | 2.90             | 0.005   |
| 870609               | 1115 | 36755                | 0.043             | 8                  | 5.0<             |                    |                 | 3.20             | 0.001   |
| 870622               | 1316 | 40665                | 0.030             | 4<                 | 6.9              |                    |                 | 6.00             | 0.010   |
| 870723               | 1315 | 36756                | 0.028             | 48                 | 8.9              |                    |                 | 6.30             | 0.008   |
| 870727               | 1402 | 40678                | 0.026             | 4<                 | 8.9              |                    |                 | 7.10             | 0.002   |
| 870811               | 1045 | 36757                | 0.030             | 4<                 | 13.5             |                    |                 | 10.80            | 0.011   |
| 870825               | 0847 | 40689                | 0.018             | 4<                 | 7.0              |                    |                 | 2.80             | 0.002<  |
| 870909               | 1030 | 36758                | 0.020             | 4<                 | 5.6              |                    |                 | 10.40            | 0.003   |
| 870928               | 1436 | 40702                | 0.020             | 4<                 | 4.8              |                    |                 | 6.30             | 0.002<  |
| 871013               | 0930 | 36759                | 0.390             | 10<                | 5.0<             |                    |                 | 3.00             | 0.004   |
| 871027               | 1150 | 40713                | 0.030             | 4<                 | 6.0              |                    |                 | 3.80             | 0.003   |
| 871103               | 1100 | 36760                | 0.017             | 32                 | 4.9              |                    |                 | 2.20             | 0.003   |
| 871124               | 1206 | 40726                | 0.084             |                    | 36.4             |                    |                 | 11.10            |         |
| 871214               | 1015 | 36761                | 0.021             | 8                  | 6.4              |                    |                 | 2.20             | 0.003   |
| MAXIMUM              |      | 0.390                | 48                | 36.9               | 7700             | 7400               | 25.00           | 0.029            |         |
| ARITH MEAN           |      | 0.049                | 22                | 12.1               | 2650             | 3227               | 6.98            | 0.006<A          |         |
| GEOM MEAN            |      | 0.032                |                   |                    | 491              | 1827               | 5.03            |                  |         |
| MINIMUM              |      | 0.008                | 8                 | 2.0                | 110              | 450                | 1.41            | 0.001            |         |
| STD DEV (GEOM *)     |      | 0.075                |                   |                    | 11*              | 4*                 | 6.00            |                  |         |
| # SAMP IN STATISTICS |      | 24                   | 5                 | 18                 | 3                | 3                  | 24              | 20               |         |
| % SAMP (EXCLUDED)    |      |                      | 72                | 25                 |                  |                    |                 | 13               |         |

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: UPSTREAM FROM GEORGIAN BAY  
 STATION TYPE: RIVER

STATION ID: 03-0036-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 33 48.82 LONG: 080 26 58.98

U T M: 17 0543700.0 4934400.0 4

REGION: 01

DISTANCE: 0.161

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     | FEUT     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    | IRON     |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM | UNF.TOT. |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      | AS FE    |
|                      |      | M      |          |          |          |          |          |          |          | /100ML   |          |
| 870126               | 1158 | 40605  | 0101     | 259.0    |          | 7.500    | 520.0    | 0.001    | 14.0     |          | 0.180    |
| 870224               | 1100 | 40616  | 0101     | 265.0    |          | 7.500    | 530.0    | 0.003<   | 14.5     |          | 0.220    |
| 870323               | 1500 | 40629  | 0101     | 202.0    |          | 6.000    | 413.0    | 0.001<W  | 14.0     | 8        | 0.740    |
| 870427               | 1025 | 40640  | 0101     | 219.0    |          | 6.000    | 421.0    | 0.001<W  | 11.5     | 44       | 0.360    |
| 870526               | 1314 | 40653  | 0101     | 219.0    |          | 6.500    | 451.0    | 0.002    | 10.5     | 76       | 0.360    |
| 870622               | 1211 | 40664  | 0101     | 224.0    |          | 8.500    | 432.0    | 0.001    | 9.0      | 112      | 0.680    |
| 870727               | 1207 | 40677  | 0101     | 202.0    |          | 6.500    | 381.0    | 0.001    | 9.0      | 68       | 0.540    |
| 870825               | 1007 | 40688  | 0101     | 205.0    |          | 8.000    | 417.0    | 0.003    | 11.0     | 20       | 0.410    |
| 870928               | 1355 | 40701  | 0101     | 201.3    | 7.550    |          | 419.0    | 0.001    | 12.0     | 80       | 0.270    |
| 871027               | 1051 | 40712  | 0101     | 216.2    | 7.970    |          | 459.0    | 0.001    | 13.0     | 350      | 0.310    |
| 871124               | 1118 | 40725  | 0101     | 185.5    | 8.620    |          | 414.0    | 0.001    | 15.0     |          | 1.400    |
| MAXIMUM              |      | 0.30   |          | 265.0    | 8.620    | 8.500    | 530.0    | 0.003    | 15.0     | 350      | 1.400    |
| ARITH MEAN           |      | 0.30   |          | 218.0    | 8.047    | 7.062    | 441.5    | 0.001<A  | 12.1     | 95       | 0.497    |
| GEOM MEAN            |      |        |          | 216.8    | 8.035    | 7.008    | 439.5    |          | 12.0     | 57       | 0.417    |
| MINIMUM              |      | 0.30   |          | 185.5    | 7.550    | 6.000    | 381.0    | 0.001    | 9.0      | 8        | 0.180    |
| STD DEV (GEOM *)     |      |        |          | 24.4     | 0.539    | 0.943    | 46.1     |          | 2.1      | 3*       | 0.349    |
| # SAMP IN STATISTICS |      | 11     |          | 11       | 3        | 8        | 11       | 10       | 11       | 8        | 11       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          | 9        |          |          |          |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
| SAMPLE               |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| DATE                 | HOUR | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| YYMMDD               | LMT  | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| 870126               | 1158 | 40605    | 6      | 1.0    | 0.035    | 0.010<   | 0.900    | 0.330    | 0.003<   | 8.13 | 0.001    |
| 870224               | 1100 | 40616    | 4      | 1.0    | 0.055    | 0.010    | 0.900    | 0.360    | 0.030<   | 8.12 | 0.029    |
| 870323               | 1500 | 40629    | 8      | 4.5    | 0.030    | 0.010<   | 1.000    | 0.420    | 0.005    | 8.26 | 0.013    |
| 870427               | 1025 | 40640    | 28     |        | 0.015    | 0.020    | 0.400    | 0.330    | 0.003<   | 8.20 | 0.005    |
| 870526               | 1314 | 40653    | 108    | 14.0   | 0.015    | 0.010<   | 0.500    | 0.330    | 0.003<   | 8.28 | 0.004    |
| 870622               | 1211 | 40664    | 40     | 21.0   | 0.005<   | 0.140    | 0.100    | 0.460    | 0.003<   | 8.42 | 0.011    |
| 870727               | 1207 | 40677    | 52     | 23.5   | 0.035    | 0.010<   | 0.100    | 0.400    | 0.003<   | 8.52 | 0.001<   |
| 870825               | 1007 | 40688    | 4<     | 18.0   | 0.025    | 0.010    | 0.300    | 0.340    | 0.015    | 8.50 | 0.007    |
| 870928               | 1355 | 40701    | 56     | 17.0   | 0.025    | 0.010    | 0.400    | 0.300    | 0.003<   | 8.48 | 0.005    |
| 871027               | 1051 | 40712    | 100    | 7.0    | 0.005<   | 0.010<   | 0.500    | 0.340    | 0.003<   | 8.19 | 0.013    |
| 871124               | 1118 | 40725    | 6      | 3.0    | 0.022    | 0.010<   | 0.200    | 0.520    | 0.003<   | 7.98 | 0.006    |

( C O N T D )

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: UPSTREAM FROM GEORGIAN BAY  
 STATION TYPE: RIVER

STATION ID: 03-0036-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 33 48.82 LONG: 080 26 58.98 U T M: 17 0543700.0 4934400.0 4 REGION: 01 DISTANCE: 0.161

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |    |   |

|                      |  |     |  |      |       |       |       |       |       |      |       |
|----------------------|--|-----|--|------|-------|-------|-------|-------|-------|------|-------|
| MAXIMUM              |  | 108 |  | 23.5 | 0.055 | 0.140 | 1.000 | 0.520 | 0.015 | 8.52 | 0.029 |
| ARITH MEAN           |  | 56  |  | 11.0 | 0.029 | 0.038 | 0.482 | 0.375 | 0.010 | 8.28 | 0.009 |
| GEOM MEAN            |  |     |  | 6.8  |       |       | 0.373 | 0.370 |       | 8.28 |       |
| MINIMUM              |  | 8   |  | 1.0  | 0.015 | 0.010 | 0.100 | 0.300 | 0.005 | 7.98 | 0.001 |
| STD DEV (GEOM *)     |  |     |  | 8.6  |       |       | 0.322 | 0.067 |       | 0.18 |       |
| # SAMP IN STATISTICS |  | 7   |  | 10   | 9     | 5     | 11    | 11    | 2     | 11   | 10    |
| % SAMP (EXCLUDED)    |  | 12  |  |      | 18    | 54    |       |       | 81    |      | 9     |

| *=INTERIM TEST-NAME:     |             | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                             |                                   |                         |   |

|        |      |       |       |      |       |         |
|--------|------|-------|-------|------|-------|---------|
| 870126 | 1158 | 40605 | 0.013 | 5.0< | 3.60  | 0.002   |
| 870224 | 1100 | 40616 | 0.078 | 3.8  | 2.90  | 0.004   |
| 870323 | 1500 | 40629 | 0.036 | 19.5 | 23.00 | 0.001<W |
| 870427 | 1025 | 40640 | 0.032 | 13.3 | 8.60  | 0.007   |
| 870526 | 1314 | 40653 | 0.018 | 10.0 | 10.40 | 0.020<  |
| 870622 | 1211 | 40664 | 0.032 | 17.0 | 15.40 | 0.012   |
| 870727 | 1207 | 40677 | 0.036 | 6.4  | 13.30 | 0.005   |
| 870825 | 1007 | 40688 | 0.036 | 14.3 | 11.50 | 0.003   |
| 870928 | 1355 | 40701 | 0.023 | 6.2  | 7.90  | 0.003   |
| 871027 | 1051 | 40712 | 0.017 | 5.7  | 6.50  | 0.003   |
| 871124 | 1118 | 40725 | 0.080 | 40.7 | 32.00 | 0.007   |

|                      |  |       |      |       |         |
|----------------------|--|-------|------|-------|---------|
| MAXIMUM              |  | 0.080 | 40.7 | 32.00 | 0.012   |
| ARITH MEAN           |  | 0.036 | 13.7 | 12.28 | 0.005<A |
| GEOM MEAN            |  | 0.031 |      | 9.83  |         |
| MINIMUM              |  | 0.013 | 3.8  | 2.90  | 0.001   |
| STD DEV (GEOM *)     |  | 0.023 |      | 8.65  |         |
| # SAMP IN STATISTICS |  | 11    | 10   | 11    | 10      |
| % SAMP (EXCLUDED)    |  |       | 9    |       | 9       |

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT RAILROAD BRIDGE THORNBURY  
 STATION TYPE: RIVER

STATION ID: 03-0036-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 33 45.61 LONG: 080 27 04.00 U T M: 17 0543590.0 4934300.0 4 REGION: 01 DISTANCE: 0.322

| *=INTERIM TEST-NAME: |             | FWSADP               | FGPROJ                      | CUUT<br>COPPER            | FEUT<br>IRON              | PBUT<br>LEAD              | ZNUT<br>ZINC              |
|----------------------|-------------|----------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | UNF.TOT.<br>MG/L<br>AS CU | UNF.TOT.<br>MG/L<br>AS FE | UNF.TOT.<br>MG/L<br>AS PB | UNF.TOT.<br>MG/L<br>AS ZN |
| 871124               | 1206        | 40726                | 0101                        | 0.002                     | 0.680                     | 0.003<                    | 0.003                     |
|                      |             | MAXIMUM              |                             | 0.002                     | 0.680                     |                           | 0.003                     |
|                      |             | ARITH MEAN           |                             | 0.002                     | 0.680                     |                           | 0.003                     |
|                      |             | GEOM MEAN            |                             |                           |                           |                           |                           |
|                      |             | MINIMUM              |                             | 0.002                     | 0.680                     |                           | 0.003                     |
|                      |             | STD DEV (GEOM *)     |                             |                           |                           |                           |                           |
|                      |             | # SAMP IN STATISTICS | 1                           | 1                         | 1                         |                           | 1                         |
|                      |             | % SAMP (EXCLUDED)    |                             |                           |                           |                           |                           |

B.O.W./ SITE: BOYNE RIVER  
 SAMPLE POINT: 1ST.BRIDGE DNSTR.FROM HWY.10 FLESHERTON  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STATION ID: 03-0036-005-02

STORET CODE: 02  
 002  
 2250

LAT: 44 16 47.79 LONG: 080 32 44.63 U T M: 17 0536250.0 4902850.0 4 REGION: 01 DISTANCE: 44.417

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |      |        |          | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | UMHO/CM  | MF       | MF       |        | WATER  | UNF.REAC |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870126               | 1049 | 40601  | 0101     |          | 19.500   | 545.0    |          |          | 6      | 1.0    | 0.025    |
| 870323               | 1341 | 40625  | 0101     |          | 16.500   | 466.0    | 112      | 8        | 6      | 7.0    | 0.035    |
| 870526               | 1008 | 40649  | 0101     |          | 19.500   | 515.0    | 220      | 44       | 6      | 12.5   | 0.005    |
| 870727               | 1050 | 40673  | 0101     |          | 23.500   | 540.0    | 380      | 92       | 6      | 19.0   | 0.015    |
| 870928               | 1230 | 40697  | 0101     | 27.550   |          | 575.0    | 148      | 40       | 6      | 15.0   | 0.005<   |
| 871124               | 1003 | 40721  | 0101     | 28.360   |          | 525.0    |          |          | 6      | 3.0    | 0.006    |
| MAXIMUM              |      | 0.30   |          | 28.360   | 23.500   | 575.0    | 380      | 92       |        | 19.0   | 0.035    |
| ARITH MEAN           |      | 0.30   |          | 27.955   | 19.750   | 527.7    | 215      | 46       |        | 9.6    | 0.017    |
| GEOM MEAN            |      |        |          | 27.952   | 19.595   | 526.6    | 193      | 34       |        | 6.5    |          |
| MINIMUM              |      | 0.30   |          | 27.550   | 16.500   | 466.0    | 112      | 8        |        | 1.0    | 0.005    |
| STD DEV (GEOM *)     |      |        |          | 0.573    | 2.872    | 36.5     | 2*       | 3*       |        | 7.1    |          |
| # SAMP IN STATISTICS |      | 6      |          | 2        | 4        | 6        | 4        | 4        |        | 6      | 5        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |        |        | 16       |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | NO2-N    | NO3-N    | TOTAL    |      | PO4      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | /100ML   | MG/L    |
| 870126               | 1049 | 0.010<   | 0.600    | 0.300    | 8.15 | 0.001    | 0.010    |          | 2.8     |
| 870323               | 1341 | 0.010<   | 0.400    | 0.560    | 8.26 | 0.010    | 0.048    | 4<       | 22.7    |
| 870526               | 1008 | 0.010<   | 0.600    | 0.360    | 8.19 | 0.002    | 0.024    | 4<       | 8.5     |
| 870727               | 1050 | 0.010    | 0.400    | 0.290    | 8.48 | 0.033    | 0.051    | 4<       | 5.0<    |
| 870928               | 1230 | 0.010    | 0.700    | 0.210    | 8.41 | 0.004    | 0.010    | 4<       | 13.5    |
| 871124               | 1003 | 0.010<   | 0.100    | 0.340    | 7.82 | 0.010    | 0.019    |          | 3.2     |
| MAXIMUM              |      | 0.010    | 0.700    | 0.560    | 8.48 | 0.033    | 0.051    |          | 22.7    |
| ARITH MEAN           |      | 0.010    | 0.467    | 0.343    | 8.22 | 0.010    | 0.027    |          | 10.1    |
| GEOM MEAN            |      |          | 0.399    | 0.328    | 8.22 | 0.005    | 0.022    |          |         |
| MINIMUM              |      | 0.010    | 0.100    | 0.210    | 7.82 | 0.001    | 0.010    |          | 2.8     |
| STD DEV (GEOM *)     |      |          | 0.216    | 0.118    | 0.23 | 0.012    | 0.018    |          |         |
| # SAMP IN STATISTICS |      | 2        | 6        | 6        | 6    | 6        | 6        |          | 5       |
| % SAMP (EXCLUDED)    |      | 66       |          |          |      |          |          |          | 16      |

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT GREY COUNTY ROAD NO 2 FEVERSHAM  
 STATION TYPE: RIVER

STATION ID: 03-0036-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 16.44 LONG: 080 22 43.55 U T M: 17 0549525.0 4909375.0 4 REGION: 01 DISTANCE: 56.969

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870126               | 1118 | 40603  | 0101     |          | 5.000    | 520.0    |          |          | 6      | 1.0    | 0.010    |
| 870323               | 1415 | 40627  | 0101     |          | 4.500    | 462.0    | 12       | 8        | 6      | 5.5    | 0.025    |
| 870526               | 1040 | 40651  | 0101     |          | 4.500    | 498.0    | 148      | 144      | 6      | 11.0   | 0.020    |
| 870727               | 1124 | 40675  | 0101     |          | 5.000    | 520.0    | 68       | 88       | 6      | 14.5   | 0.025    |
| 870928               | 1305 | 40699  | 0101     | 5.220    |          | 510.0    | 56       | 104      | 6      | 12.5   | 0.010    |
| 871124               | 1045 | 40723  | 0101     | 4.430    |          | 476.0    |          |          | 6      | 2.0    | 0.024    |
| MAXIMUM              |      | 0.30   |          | 5.220    | 5.000    | 520.0    | 148      | 144      |        | 14.5   | 0.025    |
| ARITH MEAN           |      | 0.30   |          | 4.825    | 4.750    | 497.7    | 71       | 86       |        | 7.7    | 0.019    |
| GEOM MEAN            |      |        |          | 4.809    | 4.743    | 497.2    | 51       | 57       |        | 5.3    | 0.018    |
| MINIMUM              |      | 0.30   |          | 4.430    | 4.500    | 462.0    | 12       | 8        |        | 1.0    | 0.010    |
| STD DEV (GEOM *)     |      |        |          | 0.559    | 0.289    | 24.0     | 3*       | 4*       |        | 5.7    | 0.007    |
| # SAMP IN STATISTICS |      | 6      |          | 2        | 4        | 6        | 4        | 4        |        | 6      | 6        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |        |        |          |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |      | N02-N    | N03-N    | K'DAHL N |      | P04      | PHOSPHOR |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | PARTIC. | FTU      |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | MG/L    |          |
| 870126               | 1118 | 40603    | 1.700    | 0.260    | 8.06 | 0.009    | 0.014    | 5.0<    | 1.66     |
| 870323               | 1415 | 40627    | 1.200    | 0.350    | 8.23 | 0.018    | 0.029    | 3.4     | 2.10     |
| 870526               | 1040 | 40651    | 1.500    | 0.280    | 8.05 | 0.012    | 0.029    | 5.0<    | 2.00     |
| 870727               | 1124 | 40675    | 1.300    | 0.230    | 8.28 | 0.018    | 0.031    | 5.0<    | 1.00     |
| 870928               | 1305 | 40699    | 1.700    | 0.270    | 8.25 | 0.006    | 0.017    | 1.1     | 0.85     |
| 871124               | 1045 | 40723    | 0.200    | 0.220    | 7.81 | 0.008    | 0.016    | 5.0<    | 0.75     |
| MAXIMUM              |      | 0.010    | 1.700    | 0.350    | 8.28 | 0.018    | 0.031    | 3.4     | 2.10     |
| ARITH MEAN           |      | 0.010    | 1.267    | 0.268    | 8.11 | 0.012    | 0.023    | 2.2     | 1.39     |
| GEOM MEAN            |      |          | 1.052    | 0.265    | 8.11 | 0.011    | 0.022    |         | 1.28     |
| MINIMUM              |      | 0.010    | 0.200    | 0.220    | 7.81 | 0.006    | 0.014    | 1.1     | 0.75     |
| STD DEV (GEOM *)     |      |          | 0.561    | 0.046    | 0.18 | 0.005    | 0.008    |         | 0.60     |
| # SAMP IN STATISTICS |      | 1        | 6        | 6        | 6    | 6        | 6        | 2       | 6        |
| % SAMP (EXCLUDED)    |      | 83       |          |          |      |          |          | 66      |          |

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.10 OSPREY TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 03-0036-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 21 13.79 LONG: 080 22 10.19

U T M: 17 0550250.0 4911150.0 4

REGION: 01

DISTANCE: 59.061

| *=INTERIM TEST-NAME: |                      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|----------------------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |                      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |                      |        |          | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| SAMPLE               | DATE HOUR            | SAMPLE | SAMPLE   | PROJECT  | MG/L     | MG/L     | UMHO/CM  | MF       | MF     | TEMP   | MG/L     |
| YYMMDD LMT           | NUMBER               | DEPTH  | SUB-PROJ | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT    | DEG.C  | AS N     |
|                      |                      | M      |          |          |          |          |          | /100ML   | /100ML | COND.  |          |
| 870126 1129          | 40604                | 0.30   | 0101     |          |          | 2.500    | 515.0    |          |        | 4      | 1.0      |
| 870323 1425          | 40628                | 0.30   | 0101     |          |          | 3.000    | 467.0    | 4<       | 8      | 6      | 0.015    |
| 870526 1056          | 40652                | 0.30   | 0101     |          |          | 2.500    | 505.0    | 80       | 20     | 6      | 0.005    |
| 870727 1139          | 40676                | 0.30   | 0101     |          |          | 2.500    | 505.0    | 120      | 104    | 6      | 0.015    |
| 870928 1320          | 40700                | 0.30   | 0101     |          | 2.620    |          | 505.0    | 12       | 96     | 6      | 0.005<   |
| 871124 1051          | 40724                | 0.30   | 0101     |          | 3.020    |          | 465.0    |          |        | 6      | 0.012    |
|                      | MAXIMUM              | 0.30   |          |          | 3.020    | 3.000    | 515.0    | 120      | 104    |        | 14.0     |
|                      | ARITH MEAN           | 0.30   |          |          | 2.820    | 2.625    | 493.7    | 71       | 57     |        | 7.6      |
|                      | GEOM MEAN            |        |          |          | 2.813    | 2.617    | 493.3    |          | 36     |        | 5.3      |
|                      | MINIMUM              | 0.30   |          |          | 2.620    | 2.500    | 465.0    | 12       | 8      |        | 1.0      |
|                      | STD DEV (GEOM *)     |        |          |          | 0.283    | 0.250    | 21.8     |          | 3*     |        | 5.4      |
|                      | # SAMP IN STATISTICS | 6      |          |          | 2        | 4        | 6        | 3        | 4      |        | 6        |
|                      | % SAMP (EXCLUDED)    |        |          |          |          |          |          | 25       |        |        | 5        |
|                      |                      |        |          |          |          |          |          |          |        |        | 16       |

| *=INTERIM TEST-NAME: |                      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|----------------------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |                      | N02-N    | N03-N    | K'DAHL N |      | P04      | PHOSPHOR |         |          |
|                      |                      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
| SAMPLE               | DATE HOUR            | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | PARTIC. | FTU      |
| YYMMDD LMT           | NUMBER               | AS N     | AS N     | AS N     |      | AS P     | AS P     | MG/L    |          |
| 870126 1129          | 40604                | 0.010<   | 2.000    | 0.270    | 7.87 | 0.020    | 0.028    | 5.0<    | 1.51     |
| 870323 1425          | 40628                | 0.010<   | 1.700    | 0.320    | 8.18 | 0.028    | 0.036    | 3.2     | 1.51     |
| 870526 1056          | 40652                | 0.010<   | 1.800    | 0.300    | 8.03 | 0.031    | 0.040    | 3.4     | 1.45     |
| 870727 1139          | 40676                | 0.010<   | 1.200    | 0.260    | 8.36 | 0.037    | 0.054    | 5.0<    | 1.55     |
| 870928 1320          | 40700                | 0.010    | 1.600    | 0.250    | 8.29 | 0.024    | 0.035    | 0.1<    | 0.56     |
| 871124 1051          | 40724                | 0.010<   | 0.400    | 0.170    | 7.84 | 0.006    | 0.030    | 5.0<    | 0.31     |
|                      | MAXIMUM              | 0.010    | 2.000    | 0.320    | 8.36 | 0.037    | 0.054    | 3.4     | 1.55     |
|                      | ARITH MEAN           | 0.010    | 1.450    | 0.262    | 8.09 | 0.024    | 0.037    | 3.3     | 1.15     |
|                      | GEOM MEAN            |          | 1.294    | 0.257    | 8.09 | 0.021    | 0.036    |         | 0.98     |
|                      | MINIMUM              | 0.010    | 0.400    | 0.170    | 7.84 | 0.006    | 0.028    | 3.2     | 0.31     |
|                      | STD DEV (GEOM *)     |          | 0.579    | 0.052    | 0.22 | 0.011    | 0.009    |         | 0.56     |
|                      | # SAMP IN STATISTICS | 1        | 6        | 6        | 6    | 6        | 6        | 2       | 6        |
|                      | % SAMP (EXCLUDED)    | 83       |          |          |      |          |          | 66      |          |



## 17

STORET CODE: 02  
002  
2250

**DISTANCE: 58.257**

| *INTERIM             |      | TEST-NAME: | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|------------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      |            | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |
| SAMPLE               |      |            | UNF.REAC | UNF.REAC | TOTAL    |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |
| DATE                 | HR   | SAMPLE     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | PARTIC. |
| YYMMDD               | LMT  | NUMBER     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | MG/L    |
| 870126               | 1110 | 40602      | 0.010<   | 1.500    | 0.310    | 7.93 | 0.005    | 0.017    |          | 4.2     |
| 870323               | 1409 | 40626      | 0.010<   | 0.800    | 0.430    | 8.11 | 0.015    | 0.040    | 4<       | 10.2    |
| 870526               | 1031 | 40650      | 0.010<   | 1.200    | 0.320    | 7.93 | 0.007    | 0.032    | 4<       | 6.2     |
| 870727               | 1112 | 40674      | 0.010<   | 1.400    | 0.270    | 8.15 | 0.012    | 0.021    | 4<       | 5.0<    |
| 870928               | 1253 | 40698      | 0.010<   | 1.700    | 0.200    | 8.11 | 0.004    | 0.017    | 4<       | 7.9     |
| 871124               | 1025 | 40722      | 0.010<   | 0.100    | 0.320    | 7.68 | 0.021    | 0.074    |          | 5.1     |
| MAXIMUM              |      |            |          | 1.700    | 0.430    | 8.15 | 0.021    | 0.074    |          | 10.2    |
| ARITH MEAN           |      |            |          | 1.117    | 0.308    | 7.98 | 0.011    | 0.033    |          | 6.7     |
| GEOM MEAN            |      |            |          | 0.837    | 0.301    | 7.98 | 0.009    | 0.029    |          |         |
| MINIMUM              |      |            |          | 0.100    | 0.200    | 7.68 | 0.004    | 0.017    |          | 4.2     |
| STD DEV (GEOM *)     |      |            |          | 0.585    | 0.075    | 0.18 | 0.007    | 0.022    |          |         |
| # SAMP IN STATISTICS |      |            |          | 6        | 6        | 6    | 6        | 6        |          | 5       |
| % SAMP (EXCLUDED)    |      |            |          |          |          |      |          |          |          | 16      |

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY  
 STATION TYPE: RIVER

STATION ID: 03-0036-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 45.92 LONG: 080 32 22.47

U T M: 17 0536700.0 4910200.0 4

REGION: 01

DISTANCE: 37.175

| **INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | ASUT     | CDUT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          |          |          |          |          |          |          |          | FECAL    |
|                      |      |                      |          |          |          |          |          |          |          |          | COLIFORM |
|                      |      |                      |          |          |          |          |          |          |          |          | MF       |
|                      |      |                      |          |          |          |          |          |          |          |          | CNT      |
|                      |      |                      |          |          |          |          |          |          |          |          | /100ML   |
| SAMPLE               |      | SAMPLE               | PROJECT  | ALK      | ARSENIC  | CADMIUM  | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   |          |
| DATE                 | HR   | DEPTH                | SUB-PROJ | TOTAL    | UNF.TOT. | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. |          |
| YYMMDD               | LMT  | M                    | CODE     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     |          |
|                      |      |                      |          | AS CAC03 | AS AS    | AS CD    | AS CL    | AS CL-   | AT 25 C  | AS CU    |          |
| 870126               | 1027 | 40600                | 0101     | 254.0    | 0.001<   | 0.0003<  |          | 7.000    | 525.0    | 0.001    |          |
| 870224               | 1017 | 40615                | 0101     | 269.0    | 0.001<   | 0.0030<  |          | 7.000    | 550.0    | 0.003    |          |
| 870323               | 1318 | 40624                | 0101     | 233.0    | 0.001<   | 0.0003<  |          | 8.500    | 448.0    | 0.001<W  | 8        |
| 870427               | 0948 | 40639                | 0101     | 213.0    | 0.001<   | 0.0003<  |          | 6.500    | 412.0    | 0.001<W  | 4<       |
| 870526               | 0944 | 40648                | 0101     | 214.0    | 0.001<   | 0.0003<  |          | 7.500    | 453.0    | 0.001    | 24       |
| 870622               | 1133 | 40663                | 0101     | 211.0    | 0.001<   | 0.0003<  |          | 8.500    | 422.0    | 0.001    | 164      |
| 870727               | 1026 | 40672                | 0101     | 195.0    | 0.001<   | 0.0003<  |          | 7.000    | 375.0    | 0.001<W  | 32       |
| 870825               | 0926 | 40687                | 0101     | 209.0    | 0.001<   | 0.0003   |          | 8.500    | 431.0    | 0.001<   | 24       |
| 870928               | 1206 | 40696                | 0101     | 218.3    | 0.001<   | 0.0003<  | 8.560    |          | 446.0    | 0.001<   | 68       |
| 871027               | 1010 | 40711                | 0101     | 197.0    | 0.001<   | 0.0003<  | 9.550    |          | 408.0    | 0.002    | 60AID    |
| 871124               | 0937 | 40720                | 0101     | 196.5    | 0.001<   | 0.0003<  | 8.670    |          | 415.0    | 0.001<   |          |
|                      |      | MAXIMUM              | 0.30     | 269.0    |          | 0.0003   | 9.550    | 8.500    | 550.0    | 0.003    | 164      |
|                      |      | ARITH MEAN           | 0.30     | 219.1    |          | 0.0003   | 8.927    | 7.562    | 444.1    | 0.001<A  | 54       |
|                      |      | GEOM MEAN            |          | 218.0    |          |          | 8.916    | 7.524    | 441.5    |          |          |
|                      |      | MINIMUM              | 0.30     | 195.0    |          | 0.0003   | 8.560    | 6.500    | 375.0    | 0.001    | 8        |
|                      |      | STD DEV (GEOM *)     |          | 23.9     |          |          | 0.543    | 0.821    | 51.5     |          |          |
|                      |      | # SAMP IN STATISTICS | 11       | 11       |          | 1        | 3        | 8        | 11       | 8        | 7        |
|                      |      | % SAMP (EXCLUDED)    |          |          |          | 90       |          |          |          | 27       | 12       |
| **INTERIM TEST-NAME: |      | FSMF                 | FWSTRC   | FWTEMP   | NIUT     | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       |
|                      |      | FECAL                |          |          |          | NH3-N    |          |          | K'DAHL N |          |          |
|                      |      | STREPCUS             |          |          |          | TOTAL    |          |          | TOTAL    |          |          |
|                      |      | MF                   |          |          |          |          |          |          |          |          |          |
|                      |      | CNT                  |          |          |          |          |          |          |          |          |          |
|                      |      | /100ML               |          |          |          |          |          |          |          |          |          |
| SAMPLE               |      |                      | STREAM   | WATER    | NICKEL   | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          |
| DATE                 | HR   |                      | COND.    | TEMP     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          |
| YYMMDD               | LMT  |                      |          | DEG.C    | AS NI    | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       |
| 870126               | 1027 | 40600                | 6        | 1.0      | 0.002<   | 0.080    | 0.010<   | 1.000    | 0.390    | 0.003<   | 7.97     |
| 870224               | 1017 | 40615                | 6        | 1.0      | 0.015<   | 0.095    | 0.040    | 1.100    | 0.400    | 0.030<   | 7.80     |
| 870323               | 1318 | 40624                | 4<       | 5.0      | 0.011    | 0.045    | 0.010<   | 0.800    | 0.300    | 0.005    | 8.18     |
| 870427               | 0948 | 40639                | 4        |          | 0.002<   | 0.025    | 0.020    | 0.700    | 0.340    | 0.003<   | 8.25     |
| 870526               | 0944 | 40648                | 4<       | 13.0     | 0.002<   | 0.035    | 0.010<   | 0.700    | 0.330    | 0.003<   | 8.24     |
| 870622               | 1133 | 40663                | 336      | 17.0     | 0.002<   | 0.005    | 0.010    | 1.000    | 0.340    | 0.003<   | 8.38     |
| 870727               | 1026 | 40672                | 132      | 22.0     | 0.002<   | 0.010    | 0.010<   | 0.200    | 0.290    | 0.003<   | 8.50     |
| 870825               | 0926 | 40687                | 76       | 14.0     | 0.001<   | 0.010    | 0.010    | 0.400    | 0.230    | 0.010    | 8.41     |
| 870928               | 1206 | 40696                | 64       | 15.0     | 0.001<   | 0.005    | 0.010    | 0.600    | 0.250    | 0.003<   | 8.43     |
| 871027               | 1010 | 40711                | 40AID    | 8.0      | 0.001<   | 0.005<   | 0.010<   | 0.500    | 0.560    | 0.003<   | 8.22     |
| 871124               | 0937 | 40720                | 6        | 3.5      | 0.001<   | 0.038    | 0.010<   | 0.100<   | 0.340    | 0.003<   | 7.71     |

( C O N T D )

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY  
 STATION TYPE: RIVER

STATION ID: 03-0036-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 45.92 LONG: 080 32 22.47 U T M: 17 0536700.0 4910200.0 4 REGION: 01 DISTANCE: 37.175

| *=INTERIM TEST-NAME: |  | FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH |
|----------------------|--|--|---------------------------|----------------------------------|-----------------------------------|--|---|---|---|---|----|
|----------------------|--|--|---------------------------|----------------------------------|-----------------------------------|--|---|---|---|---|----|

|                      |     |  |  |      |       |       |       |       |       |       |      |
|----------------------|-----|--|--|------|-------|-------|-------|-------|-------|-------|------|
| MAXIMUM              | 336 |  |  | 22.0 | 0.011 | 0.095 | 0.040 | 1.100 | 0.560 | 0.010 | 8.50 |
| ARITH MEAN           | 109 |  |  | 9.9  | 0.011 | 0.035 | 0.018 | 0.700 | 0.343 | 0.007 | 8.19 |
| GEOM MEAN            |     |  |  | 6.5  |       |       |       |       | 0.333 |       | 8.19 |
| MINIMUM              | 4   |  |  | 1.0  | 0.011 | 0.005 | 0.010 | 0.200 | 0.230 | 0.005 | 7.71 |
| STD DEV (GEOM *)     |     |  |  | 7.3  |       |       |       |       | 0.089 |       | 0.26 |
| # SAMP IN STATISTICS | 6   |  |  | 10   | 1     | 10    | 5     | 10    | 11    | 2     | 11   |
| % SAMP (EXCLUDED)    | 25  |  |  |      | 90    | 9     | 54    | 9     |       | 81    |      |

| *=INTERIM TEST-NAME: |  | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|--|---|--|-----------------------------------|-------------------------|---|
|----------------------|--|---|--|-----------------------------------|-------------------------|---|

|        |      |       |        |       |      |       |         |
|--------|------|-------|--------|-------|------|-------|---------|
| 870126 | 1027 | 40600 | 0.001< | 0.006 | 5.0< | 1.55  | 0.004   |
| 870224 | 1017 | 40615 | 0.015  | 0.034 | 1.3  | 2.20  | 0.009   |
| 870323 | 1318 | 40624 | 0.007  | 0.010 | 5.1  | 3.40  | 0.001<W |
| 870427 | 0948 | 40639 | 0.002  | 0.013 | 5.0< | 1.41  | 0.003   |
| 870526 | 0944 | 40648 | 0.003  | 0.011 | 5.0< | 2.80  | 0.003   |
| 870622 | 1133 | 40663 | 0.006  | 0.019 | 9.3  | 6.20  | 0.015   |
| 870727 | 1026 | 40672 | 0.001< | 0.017 | 6.4  | 3.90  | 0.006   |
| 870825 | 0926 | 40687 | 0.008  | 0.008 | 5.0< | 1.24  | 0.003   |
| 870928 | 1206 | 40696 | 0.005  | 0.007 | 2.2  | 1.80  | 0.003   |
| 871027 | 1010 | 40711 | 0.013  | 0.038 | 21.1 | 17.30 | 0.013   |
| 871124 | 0937 | 40720 | 0.011  | 0.020 | 3.4  | 1.03  | 0.005   |

|                      |       |       |      |       |         |
|----------------------|-------|-------|------|-------|---------|
| MAXIMUM              | 0.015 | 0.038 | 21.1 | 17.30 | 0.015   |
| ARITH MEAN           | 0.008 | 0.017 | 7.0  | 3.89  | 0.006<A |
| GEOM MEAN            |       | 0.014 |      | 2.64  | 0.005<A |
| MINIMUM              | 0.002 | 0.006 | 1.3  | 1.03  | 0.001   |
| STD DEV (GEOM *)     |       | 0.011 |      | 4.70  | 0.005<A |
| # SAMP IN STATISTICS | 9     | 11    | 7    | 11    | 11      |
| % SAMP (EXCLUDED)    | 18    |       | 36   |       |         |

## 1987 WATER QUALITY DATA REGION 1

20

B.O.W./ SITE: LITTLE RIVER  
 SAMPLE POINT: AT RIVERSIDE DRIVE WINDSOR  
 STATION TYPE: RIVER

STATION ID: 04-0001-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: LITTLE RIVER

STORET CODE: 02  
 003  
 2750

LAT: 42 20 17.81 LONG: 082 56 34.06

U T M: 17 0339950.0 4688950.0 4

REGION: 01

DISTANCE: 0.161

| *=INTERIM TEST-NAME: |           | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CRUT     | CUUT     | DO       |
|----------------------|-----------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |           |        |        |          | BOD      |          |          |          |          |          |          |
|                      |           |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | CHROMIUM | COPPER   | DISOLVED |
|                      |           |        |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | UNF.TOT. | OXYGEN   |
| SAMPLE               | DATE HOUR | SAMPLE | DEPTH  | PROJECT  | TOTAL    | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MG/L     |
| YYMMDD               | LMT       | NUMBER | M      | SUB-PROJ | MG/L     | AS CL    | AS CL-   | AT 25 C  | AS CR    | AS CU    | AS O     |
|                      |           |        |        | CODE     | AS CAC03 |          |          |          |          |          |          |
| 870113               | 1156      | 40806  | 0.30   | 0101     | 114.0    | 1.08     | 35.500   | 431.0    | 0.002    | 0.002    | 15.0     |
| 870210               | 1205      | 40818  | 0.30   | 0101     | 94.4     | 1.72     | 23.000   | 332.0    |          |          | 15.0     |
| 870310               | 1145      | 40830  | 0.30   | 0101     | 116.0    | 3.38     | 40.000   | 484.0    | 0.006    | 0.003    | 7.5      |
| 870414               | 1146      | 40842  | 0.30   | 0101     | 152.0    | 7.28     | 95.000   | 970.0    | 0.012    | 0.008    | 6.5      |
| 870512               | 1145      | 40854  | 0.30   | 0101     | 172.0    | 9.72     | 112.000  | 1350.0   | 0.058    | 0.009    | 4.5      |
| 870609               | 1145      | 40866  | 0.30   | 0101     | 165.0    | 4.76     | 77.000   | 810.0    | 0.010    | 0.005    | 3.5      |
| 870714               | 1145      | 40878  | 0.30   | 0101     | 86.8     | 5.50     | 94.000   | 575.0    | 0.018    | 0.012    | 7.5      |
| 870813               | 1127      | 40890  | 0.30   | 0101     | 109.0    | 6.40     | 210.000  | 1060.0   | 0.003    | 0.004    | 6.5      |
| 870916               | 0725      | 40902  | 0.30   | 0101     |          | 9.92     | 128.000  | 895.0    | 0.013    | 0.008    | 6.0      |
| 871013               | 1145      | 40942  | 0.30   | 0101     | 113.0    | 7.18     | 56.640   | 705.0    | 0.068    | 0.034    | 7.5      |
| 871110               | 1148      | 40953  | 0.30   | 0101     | 227.8    | 5.70     | 73.750   | 690.0    | 0.017    | 0.005    | 7.5      |
| 871216               | 1103      | 40968  | 0.30   | 0101     | 109.8    | 8.24     | 46.830   | 496.0    |          |          | 4.5      |
| MAXIMUM              |           | 0.30   |        |          | 227.8    | 9.92     | 128.000  | 1350.0   | 0.068    | 0.034    | 15.0     |
| ARITH MEAN           |           | 0.30   |        |          | 132.7    | 5.91     | 69.044   | 733.2    | 0.021    | 0.009    | 7.6      |
| GEOM MEAN            |           |        |        |          | 127.4    | 5.01     | 63.115   | 679.4    | 0.012    | 0.007    | 7.0      |
| MINIMUM              |           | 0.30   |        |          | 86.8     | 1.08     | 40.000   | 332.0    | 0.002    | 0.002    | 3.5      |
| STD DEV (GEOM *)     |           |        |        |          | 42.0     | 2.84     | 35.316   | 297.5    | 0.023    | 0.009    | 3.7      |
| # SAMP IN STATISTICS |           | 12     |        |          | 11       | 12       | 5        | 12       | 10       | 10       | 12       |
| % SAMP (EXCLUDED)    |           |        |        |          |          |          |          |          |          |          |          |

| *=INTERIM TEST-NAME: |           | FCMF     | FSMF     | FWSTRC | FWTEMP | NIUT     | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     |
|----------------------|-----------|----------|----------|--------|--------|----------|----------|----------|----------|----------|----------|
|                      |           | FECAL    | FECAL    |        |        |          | NH3-N    |          |          | K'DAHL N |          |
|                      |           | COLIFORM | STREPCUS |        |        | NICKEL   | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |
|                      |           | MF       | MF       |        | WATER  | UNF.TOT. | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |
| SAMPLE               | DATE HOUR | SAMPLE   | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |
| YYMMDD               | LMT       | NUMBER   | /100ML   | COND.  | DEG.C  | AS NI    | AS N     | AS N     | AS N     | AS N     | AS PB    |
| 870113               | 1156      | 40806    |          | 6 8    | 2.0    | 0.010    | 0.195    | 0.020    | 1.800    | 0.660    | 0.003<   |
| 870210               | 1205      | 40818    | 10<      | 4      | 1.5    |          | 0.166    | 0.020    | 1.000    | 0.600    |          |
| 870310               | 1145      | 40830    |          | 4      | 0.5    | 0.019    | 0.712    | 0.080    | 2.100    | 1.850    | 0.003<   |
| 870414               | 1146      | 40842    | 10<      | 10AID  | 8.0    | 0.042    | 2.000    | 0.200    | 7.600    | 3.460    | 0.003<   |
| 870512               | 1145      | 40854    | 125000>  | 18100> | 8 6    | 0.100    | 3.700    | 0.140    | 0.100    |          | 0.007    |
| 870609               | 1145      | 40866    | 230      | 280    | 5 8    | 0.032    | 3.950    | 0.480    | 4.500    | 5.500    | 0.004    |
| 870714               | 1145      | 40878    | 89000    | 5500   | 6 8    | 0.058    | 0.715    | 0.050    | 1.600    | 2.200    | 0.013    |
| 870813               | 1127      | 40890    | 900AID   | 100<   | 5 8    | 0.020    | 1.700    | 0.310    | 3.400    | 2.660    | 0.006    |
| 870916               | 0725      | 40902    | 40000>   | 3800   | 5 8    | 0.038    | 0.005<   | 0.070    | 7.100    | 2.740    | 0.003    |
| 871013               | 1145      | 40942    | 7400     | 100<   | 5 8 9  | 0.089    | 4.740    | 0.950    | 4.900    | 6.700    | 0.012    |
| 871110               | 1148      | 40953    | 1000<    | 100<   | 6 8 0  | 0.051    | 0.500    | 0.010<   | 0.100    | 4.000    | 0.004    |
| 371216               | 1103      | 40968    | 25000    | 9700   | 6 8    |          | 0.600    | 0.720    | 3.600    | 4.800    |          |

( C O N T D )

B.O.W./ SITE: LITTLE RIVER  
 SAMPLE POINT: AT RIVERSIDE DRIVE WINDSOR  
 STATION TYPE: RIVER

STATION ID: 04-0001-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: LITTLE RIVER

STORET CODE: 02  
 003  
 2750

LAT: 42 20 17.81 LONG: 082 56 34.06

U T M: 17 0339950.0 4688950.0 4

REGION: 01

DISTANCE: 0.161

| *INTERIM TEST-NAME:  |  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|----------------------|--|--|--|---------------------------|----------------------------------|---|--|---|---|---|---|
| MAXIMUM              |  | 89000  | 9700   |                           | 25.0                             | 0.100                                       | 4.740  | 0.950                                       | 7.600                                       | 6.700   | 0.013                                     |
| ARITH MEAN           |  | 24506  | 3858   |                           | 12.0                             | 0.046                                       | 1.725  | 0.276                                       | 3.150                                       | 3.197   | 0.007                                     |
| GEOM MEAN            |  |  |  |                           | 7.3                              | 0.037                                       |  |   | 1.760                                       | 2.543   |   |
| MINIMUM              |  | 230  | 10   |                           | 0.5                              | 0.010                                       | 0.166  | 0.020                                       | 0.100                                       | 0.600   | 0.003                                     |
| STD DEV (GEOM *)     |  |  |  |                           | 8.8                              | 0.030                                       |  |   | 2.507                                       | 1.932   |   |
| # SAMP IN STATISTICS |  | 5  | 5  |                           | 12                               | 10  | 11   | 11  | 12  | 11  | 7   |
| % SAMP (EXCLUDED)    |  | 50   | 50   |                           |                                  |   | 8  | 8   |   |   | 30  |

| *INTERIM TEST-NAME:  |      | PH    | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|-------|--|---|--|--|-----------------------------------|-------------------------|---|
| 870113               | 1156 | 40806 | 8.05   | 1.000<                                    | 0.049  | 0.085  | 6.0                               | 12.60                   | 0.011                                     |
| 870210               | 1205 | 40818 | 7.91   | 1.000                                     | 0.043  | 0.069  | 4<                                | 7.9                     | 12.50                                     |
| 870310               | 1145 | 40830 | 7.81   | 1.000                                     | 0.088  | 0.210  |                                   | 43.9                    | 51.00                                     |
| 870414               | 1146 | 40842 | 7.50   |   | 0.270  | 0.460  | 4<                                | 11.0                    | 14.20                                     |
| 870512               | 1145 | 40854 | 7.67   | 2.500                                     | 0.475  | 0.660  | 600>                              | 30.8                    | 30.00                                     |
| 870609               | 1145 | 40866 | 7.26   | 3.000                                     | 0.446  | 0.490  | 4C                                | 16.6                    | 14.40                                     |
| 870714               | 1145 | 40878 | 7.73   | 4.500                                     | 0.117  | 0.325  |                                   | 49.2                    | 60.00                                     |
| 870813               | 1127 | 40890 | 7.34   | 1.000<                                    | 0.295  | 0.330  | 10<                               | 11.5                    | 11.70                                     |
| 870916               | 0725 | 40902 | 7.44   | 6.000                                     | 0.093  | 0.470  | 172C                              | 36.4                    | 42.00                                     |
| 871013               | 1145 | 40942 | 7.30   | 1.000                                     | 0.284  | 0.620  | 44                                | 31.1                    | 23.00                                     |
| 871110               | 1148 | 40953 | 7.57   | 4.000                                     | 0.780  | 1.100  | 10<                               | 5.9                     | 5.60                                      |
| 871216               | 1103 | 40968 | 7.37   | 2.000                                     | 0.141  | 0.840  | 630C                              | 271.4                   |   |
| MAXIMUM              |      | 8.05  | 6.000  | 0.780                                     | 1.100  | 630  | 271.4                             | 60.00                   | 0.120                                     |
| ARITH MEAN           |      | 7.58  | 2.778  | 0.257                                     | 0.472  | 213  | 43.5                              | 25.18                   | 0.044                                     |
| GEOM MEAN            |      | 7.58  |  | 0.179                                     | 0.363  |  | 21.9                              | 19.84                   | 0.035                                     |
| MINIMUM              |      | 7.26  | 1.000  | 0.043                                     | 0.069  | 4  | 5.9                               | 5.60                    | 0.011                                     |
| STD DEV (GEOM *)     |      | 0.26  |  | 0.221                                     | 0.303  |  | 73.4                              | 18.20                   | 0.032                                     |
| # SAMP IN STATISTICS |      | 12    | 9  | 12  | 12   | 4  | 12                                | 11                      | 10  |
| % SAMP (EXCLUDED)    |      |       | 18   |   |  | 55   |                                   |                         |   |

B.O.W./ SITE: PUCE RIVER  
 SAMPLE POINT: AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE  
 STATION TYPE: RIVER

STATION ID: 04-0005-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: PUCE RIVER

STORET CODE: 02  
 003  
 2770

|                      |      | LAT: 42 16 39.08 |          | LONG: 082 47 19.46 |          | U T M: 17 0352500.0 4681925.0 4 |            | REGION: 01 |          | DISTANCE: 3.380 |          |
|----------------------|------|------------------|----------|--------------------|----------|---------------------------------|------------|------------|----------|-----------------|----------|
| *=INTERIM TEST-NAME: |      | FWSADP           | FGPROJ   | CLIDUR             | CLIDUR   | COND25                          | DOC CARBON | FCMF       | FSMF     | FWSTRC          | FWTEMP   |
|                      |      |                  |          | CHLORIDE           | CHLORIDE | CONDUCT.                        | DISOLVED   | FECAL      | FECAL    |                 |          |
| SAMPLE               |      | SAMPLE           | PROJECT  | UNF.REAC           | UNF.REAC | 25C                             | ORGANIC    | COLIFORM   | STREPCUS |                 | WATER    |
| DATE                 | HR   | DEPTH            | SUB-PROJ | MG/L               | MG/L     | UMHO/CM                         | MG/L       | MF         | MF       | STREAM          | TEMP     |
| YYMMDD               | LMT  | NUMBER           | CODE     | AS CL              | AS CL-   | AT 25 C                         | AS C       | CNT        | CNT      | COND.           | DEG.C    |
|                      |      |                  |          |                    |          |                                 |            | /100ML     | /100ML   |                 |          |
| 870113               | 1133 | 40805            | 0101     |                    | 89.500   | 975.0                           | 6.1        |            |          | 6 8             | 0.5      |
| 870210               | 1125 | 40817            | 0101     |                    | 82.500   | 850.0                           |            | 890        | 640      | 4               | 1.0      |
| 870310               | 1120 | 40829            | 0101     | 42.500             |          | 760.0                           |            |            |          | 4               | 1.0      |
| 870414               | 1120 | 40841            | 0101     |                    | 67.500   | 815.0                           |            | 290        | 40AID    | 6 8             | 11.0     |
| 870512               | 1058 | 40853            | 0101     |                    | 84.000   | 870.0                           |            | 890        | 2200     | 8 6             | 16.0     |
| 870609               | 1125 | 40865            | 0101     | 44.500             |          | 840.0                           | 8.3        | 300        | 430      | 5 8             | 19.5     |
| 870714               | 1103 | 40877            | 0101     |                    | 83.000   | 640.0                           |            | 6600       | 21000    | 6 8             | 21.5     |
| 870813               | 1056 | 40889            | 0101     |                    | 142.000  | 835.0                           |            | 800AID     | 300AID   | 6 8             | 23.5     |
| 870916               | 1227 | 40901            | 0101     | 51.500             |          | 665.0                           | 13.8       | 800<       | 5300     | 6 8             | 18.5     |
| 871013               | 1130 | 40941            | 0101     | 115.500            |          | 940.0                           | 12.4       | 30AID      | 100      | 6 8             | 8.0      |
| 871110               | 1125 | 40952            | 0101     | 60.280             |          | 915.0                           |            | 170        | 100<     | 6 8             | 5.0      |
| 871216               | 1131 | 40969            | 0101     | 19.240             |          | 290.0                           | 12.3       | 1000       | 19000    | 3 6 8           | 2.0      |
| MAXIMUM              |      | 0.30             |          | 115.500            | 142.000  | 975.0                           | 13.8       | 6600       | 21000    |                 | 23.5     |
| ARITH MEAN           |      | 0.30             |          | 55.587             | 91.417   | 782.9                           | 10.6       | 1219       | 5446     |                 | 10.6     |
| GEOM MEAN            |      |                  |          | 48.520             | 88.894   | 753.0                           | 10.1       |            |          |                 | 5.7      |
| MINIMUM              |      | 0.30             |          | 19.240             | 67.500   | 290.0                           | 6.1        | 30         | 40       |                 | 0.5      |
| STD DEV (GEOM *)     |      |                  |          | 32.384             | 25.845   | 184.9                           | 3.2        |            |          |                 | 8.8      |
| # SAMP IN STATISTICS |      | 12               |          | 6                  | 6        | 12                              | 5          | 9          | 9        |                 | 12       |
| % SAMP (EXCLUDED)    |      |                  |          |                    |          |                                 |            | 10         | 10       |                 |          |
| *=INTERIM TEST-NAME: |      | NNHTUR           | NN02UR   | NN03UR             | NNTKUR   | PH                              | PHNOL      | PP04UR     | PPUT     | RSP             | TURB     |
|                      |      | NH3-N            |          |                    | K'DAHL N |                                 |            |            |          |                 |          |
|                      |      | TOTAL            |          |                    | TOTAL    |                                 |            |            |          |                 |          |
| SAMPLE               |      | UNF.REAC         | UNF.REAC | UNF.REAC           | UNF.REAC |                                 | PHENOLS    | P04        | PHOSPHOR | RESIDUE         | TURB'ITY |
| DATE                 | HR   | MG/L             | MG/L     | MG/L               | MG/L     | PH                              | UNF-REAC   | UNF.REAC   | UNF.TOT. | PARTIC.         | FTU      |
| YYMMDD               | LMT  | AS N             | AS N     | AS N               | AS N     |                                 | UG/L       | MG/L       | MG/L     | MG/L            |          |
|                      |      |                  |          |                    |          |                                 | PHENOL     | AS P       | AS P     |                 |          |
| 870113               | 1133 | 0.205            | 0.020    | 2.800              | 0.960    | 8.11                            | 1.000      | 0.080      | 0.124    | 11.5            | 21.00    |
| 870210               | 1125 | 0.375            | 0.040    | 3.200              | 1.550    | 7.61                            | 1.500      | 0.098      | 0.185    | 27.3            | 42.00    |
| 870310               | 1120 | 0.053            | 0.030    | 3.400              | 1.100    | 8.15                            | 1.000<     | 0.061      | 0.116    | 30.0            | 52.00    |
| 870414               | 1120 | 0.010            | 1.070    | 4.100              | 1.800    | 8.13                            |            | 0.036      | 0.275    | 47.1            | 46.00    |
| 870512               | 1058 | 0.010            | 0.030    | 0.600              | 1.500    | 7.69                            | 2.000      | 0.045      | 0.215    | 146.5           | 173.00   |
| 870609               | 1125 | 0.109            | 0.280    | 5.000              | 1.320    | 7.99                            | 1.000<     | 0.108      | 0.166    | 47.9            | 56.00    |
| 870714               | 1103 | 0.105            | 0.100    | 1.500              | 1.500    | 7.96                            | 1.000      | 0.115      | 0.350    | 140.1           | 215.00   |
| 870813               | 1056 | 0.030            | 0.040    | 0.200              | 0.850    | 7.85                            | 1.000<     | 0.066      | 0.160    | 29.4            | 59.00    |
| 870916               | 1227 | 0.005            | 0.070    | 6.400              | 2.300    | 7.85                            | 4.500      | 0.052      | 0.320    | 68.8            | 143.00   |
| 871013               | 1130 | 0.025            | 0.010<   | 0.100<             | 0.810    | 7.81                            | 1.000<     | 0.017      | 0.059    | 11.8            | 30.00    |
| 871110               | 1125 | 1.380            | 0.050    | 1.200              | 3.700    | 7.59                            |            | 0.012      | 0.630    | 10.2            | 10.50    |
| 871216               | 1131 | 0.060            | 0.110    | 4.400              | 8.500    | 7.47                            | 1.000      | 0.175      | 2.050    | 125.4           |          |

( C O N T D )

B.O.W./ SITE: PUCE RIVER  
 SAMPLE POINT: AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE  
 STATION TYPE: RIVER

STATION ID: 04-0005-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: PUCE RIVER

STORET CODE: 02  
 003  
 2770

LAT: 42 16 39.08 LONG: 082 47 19.46

U T M: 17 0352500.0 4681925.0 4

REGION: 01

DISTANCE: 3.380

| *=INTERIM TEST-NAME:     |             | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L | PP04UR<br>PO4<br>UNF-REAC<br>MG/L | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU |
|--------------------------|-------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER         | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | PH                                   | PHENOL                            | AS P                                 | AS P                              |                         |
| MAXIMUM                  |             | 1.380                    | 1.070                    | 6.400                    | 8.500                       | 8.15                     | 4.500                                | 0.175                             | 2.050                                | 146.5                             | 215.00                  |
| ARITH MEAN               |             | 0.197                    | 0.167                    | 2.982                    | 2.157                       | 7.85                     | 1.833                                | 0.072                             | 0.387                                | 58.0                              | 77.05                   |
| GEOM MEAN                |             | 0.058                    |                          |                          | 1.659                       | 7.85                     |                                      | 0.057                             | 0.240                                | 39.2                              | 54.13                   |
| MINIMUM                  |             | 0.005                    | 0.020                    | 0.200                    | 0.810                       | 7.47                     | 1.000                                | 0.012                             | 0.059                                | 10.2                              | 10.50                   |
| STD DEV (GEOM *)         |             | 0.387                    |                          |                          | 2.148                       | 0.23                     |                                      | 0.046                             | 0.545                                | 51.0                              | 67.79                   |
| # SAMP IN STATISTICS     |             | 12                       | 11                       | 11                       | 12                          | 12                       | 6                                    | 12                                | 12                                   | 12                                | 11                      |
| % SAMP (EXCLUDED)        |             |                          | 8                        | 8                        |                             |                          | 40                                   |                                   |                                      |                                   |                         |

B.O.W./ SITE: BELLE RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0007-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BELLE RIVER

STORET CODE: 02  
 003  
 2800

LAT: 42 13 37.28 LONG: 082 43 10.04

U T M: 17 0358100.0 4676200.0 4

REGION: 01

DISTANCE: 9.978

| *=INTERIM TEST-NAME: |           | FWSADP        | FGPROJ         | CLIDUR                | CLIDUR                       | COND25                        | DO                           | FCMF                      | FSMF                         | FWFLOW                       | FWSTRC            |              |
|----------------------|-----------|---------------|----------------|-----------------------|------------------------------|-------------------------------|------------------------------|---------------------------|------------------------------|------------------------------|-------------------|--------------|
| SAMPLE DATE          | YMMDD LMT | SAMPLE NUMBER | SAMPLE DEPTH M | PROJECT SUB-PROJ CODE | CHLORIDE UNF.REAC MG/L AS CL | CHLORIDE UNF.REAC MG/L AS CL- | CONDUCT. 25C UMHO/CM AT 25 C | DISOLVED OXYGEN MG/L AS O | FECAL COLIFORM MF CNT /100ML | FECAL STREPCUS MF CNT /100ML | STREAM FLOW M3 /S | STREAM COND. |
| 870113               | 1110      | 40804         | 0.30           | 0101                  |                              | 63.500                        | 930.0                        | 8.5                       |                              |                              | 0.480             | 6 8          |
| 870210               | 1055      | 40816         | 0.30           | 0101                  |                              | 55.500                        | 770.0                        | 12.5                      | 2000                         | 720                          | 0.315             | 4            |
| 870310               | 1055      | 40828         | 0.30           | 0101                  | 33.500                       |                               | 725.0                        | 5.0                       |                              |                              | 0.420             | 4            |
| 870414               | 1103      | 40840         | 0.30           | 0101                  |                              | 55.000                        | 865.0                        | 12.0                      | 1200                         | 120                          | 0.374             | 6 8          |
| 870512               | 1044      | 40852         | 0.30           | 0101                  |                              | 71.000                        | 850.0                        | 6.0                       | 350                          | 250                          | 0.097             | 8 6          |
| 870609               | 1104      | 40864         | 0.30           | 0101                  | 48.500                       |                               | 810.0                        | 5.5                       | 1700                         | 1600                         | 0.147             | 5 8          |
| 870714               | 1047      | 40876         | 0.30           | 0101                  |                              | 70.000                        | 650.0                        | 7.0                       | 5000                         | 10000                        | 0.574             | 6 8 0        |
| 870813               | 1040      | 40888         | 0.30           | 0101                  |                              | 85.500                        | 765.0                        | 9.5                       | 500AID                       | 1700                         | 0.022             | 6 8 9        |
| 870916               | 1210      | 40900         | 0.30           | 0101                  | 34.000                       |                               | 590.0                        | 8.0                       | 16000>                       | 2500                         | 0.500             | 6 8          |
| 871013               | 1110      | 40940         | 0.30           | 0101                  | 63.630                       |                               | 925.0                        | 11.0                      | 3200                         | 200AID                       | 0.071             | 6 8          |
| 871110               | 1105      | 40951         | 0.30           | 0101                  | 75.040                       |                               | 735.0                        | 7.0                       | 4700                         | 2200                         | 0.199             | 6 8          |
| 871216               | 1150      | 40970         | 0.30           | 0101                  | 18.950                       |                               | 281.0                        |                           | 1600                         | 17000                        | 11.100            | 6 8          |
| MAXIMUM              |           | 0.30          |                |                       | 75.040                       | 85.500                        | 930.0                        | 12.5                      | 5000                         | 17000                        | 11.100            |              |
| ARITH MEAN           |           | 0.30          |                |                       | 45.603                       | 66.750                        | 741.3                        | 8.4                       | 2250                         | 3629                         | 1.192             |              |
| GEOM MEAN            |           |               |                |                       | 41.350                       | 65.962                        | 713.2                        | 8.0                       |                              | 1271                         | 0.289             |              |
| MINIMUM              |           | 0.30          |                |                       | 18.950                       | 55.000                        | 281.0                        | 5.0                       | 350                          | 120                          | 0.022             |              |
| STD DEV (GEOM *)     |           |               |                |                       | 20.935                       | 11.449                        | 177.4                        | 2.6                       |                              | 5*                           | 3.126             |              |
| # SAMP IN STATISTICS |           | 12            |                |                       | 6                            | 6                             | 12                           | 11                        | 9                            | 10                           | 12                |              |
| % SAMP (EXCLUDED)    |           |               |                |                       |                              |                               |                              |                           | 10                           |                              |                   |              |

| *=INTERIM TEST-NAME: |           | FWTEMP           | NNHTUR                         | NN02UR                   | NN03UR                   | NNTKUR                            | PH    | PHNOL                        | PP04UR                 | PPUT                        | RSP                  |       |
|----------------------|-----------|------------------|--------------------------------|--------------------------|--------------------------|-----------------------------------|-------|------------------------------|------------------------|-----------------------------|----------------------|-------|
| SAMPLE DATE          | YMMDD LMT | WATER TEMP DEG.C | UNF.REAC NH3-N TOTAL MG/L AS N | UNF.REAC NO2-N MG/L AS N | UNF.REAC NO3-N MG/L AS N | UNF.REAC K'DAHL N TOTAL MG/L AS N | PH    | PHENOLS UNF.REAC UG/L PHENOL | UNF.REAC P04 MG/L AS P | PHOSPHOR UNF.TOT. MG/L AS P | RESIDUE PARTIC. MG/L |       |
| 870113               | 1110      | 40804            | 0.5                            | 0.375                    | 0.020                    | 2.300                             | 1.120 | 7.95                         |                        | 0.097                       | 0.148                | 8.1   |
| 870210               | 1055      | 40816            | 1.0                            | 0.410                    | 0.040                    | 3.100                             | 1.600 | 7.59                         |                        | 0.114                       | 0.195                | 19.0  |
| 870310               | 1055      | 40828            | 1.0                            | 0.066                    | 0.030                    | 2.500                             | 1.040 | 8.00                         |                        | 0.068                       | 0.136                | 25.6  |
| 870414               | 1103      | 40840            | 12.0                           | 0.010                    | 0.070                    | 1.600                             | 1.040 | 8.11                         |                        | 0.059                       | 0.164                | 32.9  |
| 870512               | 1044      | 40852            | 15.0                           | 0.005                    | 0.060                    | 0.700                             | 1.750 | 7.70                         |                        | 0.121                       | 0.280                | 64.1  |
| 870609               | 1104      | 40864            | 19.0                           | 0.570                    | 0.910                    | 9.700                             | 2.650 | 7.73                         |                        | 0.097                       | 0.205                | 71.0  |
| 870714               | 1047      | 40876            | 21.0                           | 0.070                    | 0.100                    | 1.300                             | 1.750 | 7.85                         |                        | 0.123                       | 0.475                | 144.5 |
| 870813               | 1040      | 40888            | 24.0                           | 0.045                    | 0.130                    | 0.200                             | 1.450 | 8.08                         |                        | 0.156                       | 0.370                | 77.3  |
| 870916               | 1210      | 40900            | 18.5                           | 0.005                    | 0.060                    | 4.800                             | 2.450 | 7.59                         |                        | 0.085                       | 0.320                | 40.9  |
| 871013               | 1110      | 40940            | 8.0                            | 0.015                    | 0.010<                   | 0.100                             | 0.830 | 7.67                         |                        | 0.082                       | 0.148                | 10.2  |
| 871110               | 1105      | 40951            | 5.5                            | 1.380                    | 0.050                    | 1.200                             | 3.700 | 7.69                         | 4.0                    | 0.012                       | 0.630                | 34.4  |
| 871216               | 1150      | 40970            | 2.0                            | 0.052                    | 0.090                    | 4.300                             | 8.000 | 7.48                         |                        | 0.169                       | 2.050                | 372.2 |

( C O N T D )



B.O.W./ SITE: BELLE RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0007-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BELLE RIVER

STORET CODE: 02  
 003  
 2800

LAT: 42 13 37.28 LONG: 082 43 10.04 U T M: 17 0358100.0 4676200.0 4 REGION: 01 DISTANCE: 9.978

| *=INTERIM TEST-NAME:     |             | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PHNOL                                 | PP04UR<br>P04            | PPUT<br>PHOSPHOR         | RSP<br>RESIDUE  |
|--------------------------|-------------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|------|---------------------------------------|--------------------------|--------------------------|-----------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH   | PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P | PARTIC.<br>MG/L |
|                          |             | MAXIMUM                | 24.0                     | 1.380                    | 0.910                    | 9.700                       | 8.11 | 4.0                                   | 0.169                    | 2.050                    | 372.2           |
|                          |             | ARITH MEAN             | 10.6                     | 0.250                    | 0.142                    | 2.650                       | 7.79 | 4.0                                   | 0.099                    | 0.427                    | 75.0            |
|                          |             | GEOM MEAN              | 5.8                      | 0.064                    |                          | 1.495                       | 7.78 |                                       | 0.085                    | 0.293                    | 42.5            |
|                          |             | MINIMUM                | 0.5                      | 0.005                    | 0.020                    | 0.100                       | 7.48 | 4.0                                   | 0.012                    | 0.136                    | 8.1             |
|                          |             | STD DEV (GEOM *)       | 8.7                      | 0.405                    |                          | 2.675                       | 0.21 |                                       | 0.043                    | 0.533                    | 101.0           |
|                          |             | # SAMP IN STATISTICS   | 12                       | 12                       | 11                       | 12                          | 12   | 1                                     | 12                       | 12                       | 12              |
|                          |             | % SAMP (EXCLUDED)      |                          |                          | 8                        |                             |      |                                       |                          |                          |                 |

\*=INTERIM TEST-NAME: TURB

| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | TURB'ITY<br>FTU |
|--------------------------|-------------|------------------|-----------------|
| 870113                   | 1110        | 40804            | 12.10           |
| 870210                   | 1055        | 40816            | 36.00           |
| 870310                   | 1055        | 40828            | 38.00           |
| 870414                   | 1103        | 40840            | 48.00           |
| 870512                   | 1044        | 40852            | 77.00           |
| 870609                   | 1104        | 40864            | 86.00           |
| 870714                   | 1047        | 40876            | 200.00          |
| 870813                   | 1040        | 40888            | 84.00           |
| 870916                   | 1210        | 40900            | 152.00          |
| 871013                   | 1110        | 40940            | 21.00           |
| 871110                   | 1105        | 40951            | 21.00           |

MAXIMUM 200.00  
 ARITH MEAN 70.46  
 GEOM MEAN 50.89  
 MINIMUM 12.10  
 STD DEV (GEOM \*) 59.11  
 # SAMP IN STATISTICS 11  
 % SAMP (EXCLUDED)

B.O.W./ SITE: RUSCOM RIVER  
 SAMPLE POINT: 1 MILE EAST OF EXIT 6 ON HIGHWAY 401  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 04-0010-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RUSCOM RIVER

STORET CODE: 02  
 003  
 2830

LAT: 42 13 56.44 LONG: 082 36 59.75

U T M: 17 0366600.0 4676625.0 4

REGION: 01

DISTANCE: 9.978

| *=INTERIM            |      | TEST-NAME: | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     | FWFLOW | FWSTRC |
|----------------------|------|------------|--------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |            |        |          | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | FECAL    | FECAL    | STREAM |        |
| SAMPLE               | DATE | DATE       | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | COLIFORM | STREPCUS | FLOW   | COND.  |
| YYMMDD               | HOUR | YYMMDD     | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MG/L     | CNT      | CNT      | M3     |        |
|                      | LMT  | NUMBER     | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | AS O     | /100ML   | /100ML   | /S     |        |
| 870113               | 1100 | 40803      | 0.30   | 0101     |          | 49.500   | 840.0    | 17.0     |          |          | 0.734  | 6 8    |
| 870210               | 1035 | 40815      | 0.30   | 0101     |          | 55.500   | 785.0    | 12.5     | 730      | 480      | 0.482  | 4      |
| 870310               | 1035 | 40827      | 0.30   | 0101     | 33.500   |          | 765.0    | 4.0      |          |          | 0.643  | 4      |
| 870414               | 1046 | 40839      | 0.30   | 0101     |          | 44.000   | 890.0    | 13.0     | 130      | 120      | 0.572  | 6 8    |
| 870512               | 1031 | 40851      | 0.30   | 0101     |          | 47.500   | 805.0    | 7.5      | 190      | 200      | 0.148  | 8 6    |
| 870609               | 1051 | 40863      | 0.30   | 0101     | 41.500   |          | 815.0    | 7.5      | 800AID   | 800<     | 0.225  | 6 8    |
| 870714               | 1032 | 40875      | 0.30   | 0101     |          | 62.000   | 700.0    | 7.0      | 3200     | 10000    | 0.878  | 6 8    |
| 870813               | 1024 | 40887      | 0.30   | 0101     |          | 125.000  | 860.0    | 7.0      | 1300     | 800AID   | 0.034  | 6 8    |
| 870916               | 1155 | 40899      | 0.30   | 0101     | 31.000   |          | 540.0    | 7.5      | 3400     | 4100     | 0.765  | 6 8    |
| 871013               | 1100 | 40939      | 0.30   | 0101     | 46.310   |          | 755.0    | 10.5     | 100<     | 100AID   | 0.109  | 6 8    |
| 871110               | 1055 | 40950      | 0.30   | 0101     | 60.280   |          | 915.0    | 12.0     | 800AID   | 3100     | 0.304  | 6 8    |
| 871216               | 1205 | 40971      | 0.30   | 0101     | 21.830   |          | 366.0    |          | 2000     | 9500     | 16.983 | 6 8 3  |
| MAXIMUM              |      |            | 0.30   |          | 60.280   | 125.000  | 915.0    | 17.0     | 3400     | 10000    | 16.983 |        |
| ARITH MEAN           |      |            | 0.30   |          | 39.070   | 63.917   | 753.0    | 9.6      | 1394     | 3156     | 1.823  |        |
| GEOM MEAN            |      |            |        |          | 37.144   | 59.528   | 733.4    | 8.9      |          |          | 0.442  |        |
| MINIMUM              |      |            | 0.30   |          | 21.830   | 44.000   | 366.0    | 4.0      | 130      | 100      | 0.034  |        |
| STD DEV (GEOM *)     |      |            |        |          | 13.428   | 30.593   | 156.6    | 3.7      |          |          | 4.782  |        |
| # SAMP IN STATISTICS |      |            | 12     |          | 6        | 6        | 12       | 11       | 9        | 9        | 12     |        |
| % SAMP (EXCLUDED)    |      |            |        |          |          |          |          |          | 10       | 10       |        |        |

| *=INTERIM |      | TEST-NAME: | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|-----------|------|------------|--------|----------|----------|----------|----------|------|----------|----------|---------|----------|
|           |      |            |        | NH3-N    |          |          | K'DAHL N |      |          |          |         |          |
|           |      |            |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR |         |          |
| SAMPLE    | DATE | DATE       | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE |          |
| YYMMDD    | HOUR | YYMMDD     | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | TURB'ITY |
|           | LMT  | NUMBER     | DEG.C  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    | FTU      |
| 870113    | 1100 | 40803      | 1.0    | 0.125    | 0.030    | 6.100    | 0.860    | 8.11 | 0.052    | 0.080    | 12.2    | 22.00    |
| 870210    | 1035 | 40815      | 0.5    | 0.210    | 0.040    | 5.100    | 1.400    | 7.59 | 0.061    | 0.125    | 11.8    | 28.00    |
| 870310    | 1035 | 40827      | 0.5    | 0.012    | 0.020    | 5.100    | 0.850    | 8.13 | 0.039    | 0.085    | 31.6    | 51.00    |
| 870414    | 1046 | 40839      | 7.0    | 0.010    | 0.030    | 3.800    | 0.920    | 8.30 | 0.013    | 0.084    | 44.3    | 56.00    |
| 870512    | 1031 | 40851      | 14.0   | 0.005<   | 0.020    | 1.300    | 1.300    | 7.77 | 0.030    | 0.120    | 63.9    | 77.00    |
| 870609    | 1051 | 40863      | 19.0   | 0.075    | 0.110    | 2.700    | 1.160    | 8.12 | 0.039    | 0.144    | 84.2    | 113.00   |
| 870714    | 1032 | 40875      | 22.0   | 0.100    | 0.160    | 2.200    | 1.500    | 8.00 | 0.074    | 3.550    | 147.4   | 220.00   |
| 870813    | 1024 | 40887      | 23.0   | 0.020    | 0.050    | 0.200    | 0.980    | 7.82 | 0.041    | 0.152    | 51.3    | 96.00    |
| 870916    | 1155 | 40899      | 19.0   | 0.005    | 0.050    | 5.500    | 1.900    | 7.57 | 0.084    | 0.290    | 111.5   | 178.00   |
| 871013    | 1100 | 40939      | 7.5    | 0.005<   | 0.010<   | 0.400    | 0.600    | 7.77 | 0.012    | 0.058    | 17.9    | 38.00    |
| 871110    | 1055 | 40950      | 4.0    | 0.274    | 0.010<   | 0.900    | 1.340    | 7.59 | 0.107    | 0.210    | 10.2    | 10.50    |
| 871216    | 1205 | 40971      | 1.5    | 0.036    | 0.080    | 7.900    | 11.000   | 7.43 | 0.134    | 2.650    | 421.6   |          |

( C O N T D )

B.O.W./ SITE: RUSCOM RIVER  
 SAMPLE POINT: 1 MILE EAST OF EXIT 6 ON HIGHWAY 401  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 04-0010-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RUSCOM RIVER

STORET CODE: 02  
 003  
 2830

LAT: 42 13 56.44 LONG: 082 36 59.75

U T M: 17 0366600.0 4676625.0 4

REGION: 01

DISTANCE: 9.978

| *=INTERIM TEST-NAME:     |           | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU |
|--------------------------|-----------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|------|---------------------------|------------------------------|---------------------------|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH   | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     | MG/L                      |                         |
| MAXIMUM                  |           | 23.0                   | 0.274                    | 0.160                    | 7.900                    | 11.000                      | 8.30 | 0.134                     | 3.550                        | 421.6                     | 220.00                  |
| ARITH MEAN               |           | 9.9                    | 0.087                    | 0.059                    | 3.433                    | 1.984                       | 7.85 | 0.057                     | 0.629                        | 84.0                      | 80.86                   |
| GEOM MEAN                |           | 4.9                    |                          |                          | 2.223                    | 1.345                       | 7.85 | 0.046                     | 0.207                        | 45.1                      | 57.56                   |
| MINIMUM                  |           | 0.5                    | 0.005                    | 0.020                    | 0.200                    | 0.600                       | 7.43 | 0.012                     | 0.058                        | 10.2                      | 10.50                   |
| STD DEV (GEOM *)         |           | 8.9                    |                          |                          | 2.517                    | 2.861                       | 0.28 | 0.037                     | 1.172                        | 114.7                     | 66.80                   |
| # SAMP IN STATISTICS     |           | 12                     | 10                       | 10                       | 12                       | 12                          | 12   | 12                        | 12                           | 12                        | 11                      |
| % SAMP (EXCLUDED)        |           |                        | 16                       | 16                       |                          |                             |      |                           |                              |                           |                         |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

| *=INTERIM |      | TEST-NAME: | FWSADP | FGPROJ   | ALKT  | ALKTI    | ASUT       | CCNAUR   | CDUT       | CLIDUR   | CLIDUR   | COND25   |
|-----------|------|------------|--------|----------|-------|----------|------------|----------|------------|----------|----------|----------|
|           |      |            |        |          |       | ALK      |            | CYANIDE  |            |          |          |          |
|           |      |            |        |          |       | INFLECTN | ARSENIC    | AVAIL    | CADMIUM    | CHLORIDE | CHLORIDE | CONDUCT. |
|           |      |            |        |          |       | POINT    | UNF.TOT.   | UNF.REAC | UNF.TOT.   | UNF.REAC | UNF.REAC | 25C      |
|           |      |            |        |          |       | MG/L     | MG/L       | MG/L     | MG/L       | MG/L     | MG/L     | UMHO/CM  |
|           |      |            |        |          |       | AS CAC03 | AS AS      | AS HCN   | AS CD      | AS CL    | AS CL-   | AT 25 C  |
| SAMPLE    | DATE | TIME       | SAMPLE | PROJECT  | ALK   | ALK      | AS         | AS       | AS         | AS       | AS       | AS       |
| DATE      | TIME | NUMBER     | DEPTH  | SUB-PROJ | TOTAL | POINT    | UNF.TOT.   | UNF.REAC | CADMIUM    | CHLORIDE | CHLORIDE | CONDUCT. |
| YYMMDD    | LMT  |            | M      | CODE     | MG/L  | MG/L     | MG/L       | MG/L     | MG/L       | MG/L     | MG/L     | UMHO/CM  |
| 870126    | 0950 | 39400      | 0.30   | 0101     | 267.0 |          | 0.001<     | 0.001<W  | 0.0030<    |          | 42.000   | 760.0    |
| 870223    | 0913 | 39413      | 0.30   | 0101     | 246.0 |          | 0.001<     | 0.001<W  | 0.0030<    |          | 65.000   | 820.0    |
| 870323    | 0950 | 39427      | 0.30   | 0101     | 229.0 |          | 0.001<     | 0.001<W  | 0.0003<    |          | 28.000   | 615.0    |
| 870427    | 1001 | 39443      | 0.30   | 0101     | 220.0 |          |            | 0.001<W  | 0.0002<    |          | 37.000   | 605.0    |
| 870514    | 1000 | 43000      | 0.30   | 0103     | 193.7 |          |            |          | 0.0002<    |          |          | 579.0    |
| 870515    | 1200 | 43001      | 0.30   | 0103     | 190.1 |          |            |          | 0.0005     |          |          | 582.0    |
| 870520    | 1030 | 43004      | 0.30   | 0103     | 186.5 |          |            |          | 0.0002<    |          |          | 590.0    |
| 870525    | 1000 | 39459      | 0.30   | 0101     | 185.0 |          | NO DATA NR | 0.001<W  | NO DATA BT |          | 47.500   | 630.0    |
| 870527    | 1830 | 43005      | 0.30   | 0103     | 190.9 |          |            |          | 0.0002<    |          |          | 597.0    |
| 870608    | 2000 | 43006      | 0.30   | 0103     | 145.1 |          |            |          | 0.0002<    |          |          | 462.0    |
| 870612    | 1100 | 43007      | 0.30   | 0103     | 176.3 |          |            |          | 0.0003<    |          |          | 534.0    |
| 870615    | 1100 | 43008      | 0.30   | 0103     | 187.8 |          |            |          | 0.0003<    |          |          | 559.0    |
| 870620    | 1900 | 43009      | 0.30   | 0103     | 164.2 |          |            |          | 0.0003     |          |          | 544.0    |
| 870622    | 0930 | 39475      | 0.30   | 0101     | 158.0 |          | 0.001<     | 0.001<W  | 0.0003<    |          | 90.000   | 545.0    |
|           | 1430 | 43010      | 0.30   | 0103     | 164.4 |          |            |          | 0.0003<    |          |          | 546.0    |
| 870626    | 1300 | 43011      | 0.30   | 0103     | 147.4 |          |            |          | 0.0003<    |          |          | 526.0    |
| 870702    | 1230 | 43012      | 0.30   | 0103     | 145.8 |          |            |          | 0.0002<    |          |          | 535.0    |
| 870704    | 1830 | 43013      | 0.30   | 0103     | 164.4 |          |            |          | 0.0002<    |          |          | 575.0    |
| 870727    | 0957 | 39488      | 0.30   | 0101     | 151.0 |          | 0.001      | 0.001<W  | 0.0003<    |          | 40.000   | 483.0    |
| 870812    | 1030 | 43014      | 0.30   | 0103     | 137.7 |          |            |          | NO DATA RE |          |          | 545.0    |
| 870821    | 1300 | 43015      | 0.30   | 0103     | 152.0 | 150.40   |            |          | 0.0003     |          |          | 559.0    |
| 870823    | 1330 | 43016      | 0.30   | 0103     | 160.8 |          |            |          | 0.0002<    |          |          | 586.0    |
| 870824    | 0954 | 39501      | 0.30   | 0101     | 158.0 |          | 0.001<     | 0.001<W  | 0.0005     |          | 55.500   | 560.0    |
| 870827    | 1300 | 43017      | 0.30   | 0103     | 130.9 |          |            |          | 0.0002     |          |          | 513.0    |
| 870829    | 1300 | 43018      | 0.30   | 0103     | 143.1 |          |            |          | 0.0003     |          |          | 526.0    |
| 870909    | 1100 | 43019      | 0.30   | 0103     | 176.7 |          |            |          | 0.0002<    |          |          | 628.0    |
| 870917    | 1100 | 43020      | 0.30   | 0103     | 176.8 |          |            |          | 0.0002<    |          |          | 632.0    |
| 870921    | 1030 | 43022      | 0.30   | 0103     | 177.7 |          |            |          |            |          |          |          |
| 870923    | 1045 | 43023      | 0.30   | 0103     | 182.8 |          |            |          | NO DATA BT |          |          | 622.0    |
| 870925    | 1015 | 43024      | 0.30   | 0103     | 164.3 |          |            |          | 0.0002<    |          |          | 568.0    |
| 870927    | 1345 | 43025      | 0.30   | 0103     | 184.3 |          |            |          | NO DATA BT |          |          | 637.0    |
| 870928    | 1030 | 39515      | 0.30   | 0101     | 173.2 |          | 0.001<     | 0.001<W  | 0.0003<    | 47.590   |          | 655.0    |
| 870930    | 1100 | 43026      | 0.30   | 0103     | 191.2 |          |            |          | 0.0003     |          |          | 655.0    |
| 871002    | 1100 | 43027      | 0.30   | 0103     | 196.5 |          |            |          | 0.0002<    |          |          | 665.0    |
| 871010    | 1330 | 43028      | 0.30   | 0103     | 189.6 |          |            |          | 0.0002<    |          |          | 669.0    |
| 871012    | 1430 | 43029      | 0.30   | 0103     | 194.5 |          |            |          | 0.0002<    |          |          | 668.0    |
| 871023    | 1100 | 43030      | 0.30   | 0103     | 187.8 |          |            |          | NO DATA BT |          |          | 646.0    |
| 871025    | 1200 | 43031      | 0.30   | 0103     | 186.0 |          |            |          | NO DATA BT |          |          | 643.0    |
| 871026    | 0912 | 39529      | 0.30   | 0101     | 172.8 |          | 0.001<     | 0.001<W  | 0.0003<    | 55.370   |          | 670.0    |
| 871031    | 1000 | 43032      | 0.30   | 0103     | 200.8 |          |            |          | 0.0003     |          |          | 679.0    |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | ALKTI    | ASUT     | CCNAUR  | CDUT       | CLIDUR   | CLIDUR   | COND25   |
|----------------------|------|----------------------|----------|----------|----------|----------|---------|------------|----------|----------|----------|
|                      |      |                      |          | ALK      | ALK      | ARSENIC  | CYANIDE | CADMIUM    | CHLORIDE | CHLORIDE | CONDUCT. |
|                      |      |                      |          | TOTAL    | INFLECTN | UNF.TOT. | AVAIL   | UNF.TOT.   | UNF.REAC | UNF.REAC | 25C      |
| SAMPLE               | DATE | SAMPLE               | PROJECT  | MG/L     | POINT    | MG/L     | MG/L    | MG/L       | MG/L     | MG/L     | UMHO/CM  |
| DATE                 | HR   | DEPTH                | SUB-PROJ | AS CAC03 | AS CAC03 | AS AS    | AS HCN  | AS CD      | AS CL    | AS CL-   | AT 25 C  |
| YYMMDD               | LMT  | NUMBER               | CODE     |          |          |          |         |            |          |          |          |
| 871102               | 1000 | 43033                | 0103     | 189.7    |          |          |         | 0.0002<    |          |          | 666.0    |
| 871104               | 1000 | 43034                | 0103     | 195.4    |          |          |         | NO DATA SM |          |          | 671.0    |
| 871106               | 1115 | 43035                | 0103     | 190.3    |          |          |         | 0.0003     |          |          | 633.0    |
| 871108               | 1215 | 43036                | 0103     | 206.0    |          |          |         | 0.0003     |          |          | 676.0    |
| 871114               | 1230 | 43037                | 0103     | 205.7    |          |          |         | 0.0003     |          |          | 687.0    |
| 871124               | 0857 | 39545                | 0101     | 206.7    |          | 0.001<   | 0.001<W | 0.0003<    | 51.170   |          | 685.0    |
|                      |      | MAXIMUM              | 0.30     | 267.0    | 150.40   | 0.001    | 0.001   | 0.0005     | 55.370   | 90.000   | 820.0    |
|                      |      | ARITH MEAN           | 0.30     | 181.4    | 150.40   | 0.001    | 0.001<A | 0.0003     | 51.377   | 50.625   | 609.6    |
|                      |      | GEOM MEAN            |          | 179.5    |          |          | 0.001<A |            | 51.278   | 47.709   | 605.6    |
|                      |      | MINIMUM              | 0.30     | 130.9    | 150.40   | 0.001    | 0.001   | 0.0002     | 47.590   | 28.000   | 462.0    |
|                      |      | STD DEV (GEOM *)     |          | 27.2     |          |          | 0.000<A |            | 3.894    | 19.550   | 70.7     |
|                      |      | # SAMP IN STATISTICS | 46       | 46       | 1        | 1        | 11      | 11         | 3        | 8        | 45       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          | 88       |         | 71         |          |          |          |

| *=INTERIM TEST-NAME: |      | CUUT     | DO         | FCMF     | FEUT     | FSMF       | FWSTRC | FWTEMP | HGUT     | NNHTUR   | NNOTFR   |
|----------------------|------|----------|------------|----------|----------|------------|--------|--------|----------|----------|----------|
|                      |      | COPPER   | DISOLVED   | FECAL    | IRON     | FECAL      |        |        | MERCURY  | TOTAL    | NO2+NO3N |
|                      |      | UNF.TOT. | OXYGEN     | COLIFORM | UNF.TOT. | STREPCUS   |        | WATER  | UNF.TOT. | UNF.REAC | FIL.REAC |
|                      |      | MG/L     | MG/L       | MF       | MG/L     | MF         |        | TEMP   | UG/L     | MG/L     | MG/L     |
| SAMPLE               | DATE | AS CU    | AS O       | CNT      | AS FE    | CNT        | STREAM | DEG.C  | AS HG    | AS N     | AS N     |
| DATE                 | HR   | NUMBER   |            | /100ML   |          | /100ML     | COND.  |        |          |          |          |
| YYMMDD               | LMT  |          |            |          |          |            |        |        |          |          |          |
| 870126               | 0950 | 39400    | 0.005      | 14.0     | 52       | 0.430      | 12     | 4      | 0.5      | 0.05     | 0.085    |
| 870223               | 0913 | 39413    | 0.006      | 17.0     | 48       | 1.600      | 4<     | 4      | 0.5      | 0.02     | 0.180    |
| 870323               | 0950 | 39427    | 0.002      | 12.0     | 12       | 0.530      | 20     | 6      | 6.0      | 0.02     | 0.095    |
| 870427               | 1001 | 39443    |            | 16.5     | 20AID    |            | 10AID  | 6      | 10.0     | 0.02     | 0.055    |
| 870514               | 1000 | 43000    | 0.005      |          |          |            |        |        |          | 0.01<    | 1.630    |
| 870515               | 1200 | 43001    | 0.007      |          |          |            |        |        |          | 0.01     | 3.450    |
| 870520               | 1030 | 43004    | 0.005      |          |          |            |        |        |          | 0.01<    | 2.780    |
| 870525               | 1000 | 39459    | NO DATA BT | 13.0     | 4        | NO DATA BT | 8      | 6      | 19.0     | 0.02     | 0.160    |
| 870527               | 1830 | 43005    | 0.005      |          |          |            |        |        |          | 0.01<    | 2.550    |
| 870608               | 2000 | 43006    | 0.006      |          |          |            |        | 8      |          | 0.01     | 4.970>   |
| 870612               | 1100 | 43007    | 0.004      |          |          |            |        | 8      |          | 0.01     | 5.030    |
| 870615               | 1100 | 43008    | 0.004      |          |          |            |        |        |          | 0.01<    | 4.490    |
| 870620               | 1900 | 43009    | 0.006      |          |          |            |        |        |          | 0.01<    | 3.060    |
| 870622               | 0930 | 39475    | 0.005      | 10.0     | 140      | 0.870      | 20AID  | 6      | 24.0     | 0.01<    | 0.250    |
|                      | 1430 | 43010    | 0.004      |          |          |            |        |        |          | 0.01<    | 2.940    |
| 870626               | 1300 | 43011    | 0.003      |          |          |            |        | 8      |          | 0.01<    | 2.230    |
| 870702               | 1230 | 43012    | 0.005      |          |          |            |        |        |          | 0.01<    | 1.560    |
| 870704               | 1830 | 43013    | 0.005      |          |          |            |        |        |          | 0.01     | 1.550    |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

| *=INTERIM TEST-NAME: |      | CUUT     | DO         | FCMF     | FEUT     | FSMF     | FWSTRC | FWTEMP | HGUT     | NNHTUR     | NNOTFR   |
|----------------------|------|----------|------------|----------|----------|----------|--------|--------|----------|------------|----------|
|                      |      | COPPER   | DISOLVED   | FECAL    | IRON     | FECAL    |        |        | MERCURY  | NH3-N      | NO2+NO3N |
| SAMPLE               |      | UNF.TOT. | OXYGEN     | COLIFORM | UNF.TOT. | STREPCUS |        | WATER  | UNF.TOT. | UNF.REAC   | FIL.REAC |
| DATE                 | HOUR | MG/L     | MG/L       | MF       | MG/L     | MF       | STREAM | TEMP   | UG/L     | MG/L       | MG/L     |
| YYMMDD               | LMT  | AS CU    | AS O       | /100ML   | AS FE    | /100ML   | COND.  | DEG.C  | AS HG    | AS N       | AS N     |
| 870727               | 0957 | 39488    | 0.001<W    | 7.0      | 20       | 1.000    | 36     | 6      | 26.0     | 0.02       | 0.230    |
| 870812               | 1030 | 43014    | NO DATA RE |          |          |          |        |        |          | 0.01<      | 1.590    |
| 870821               | 1300 | 43015    | 0.004      |          |          |          |        | 8      |          | 0.01<      | 3.240    |
| 870823               | 1330 | 43016    | 0.005      |          |          |          |        | 8      |          | 0.01       | 2.030    |
| 870824               | 0954 | 39501    | 0.003      | 6.5      | 90AID    | 0.860    | 70AID  | 6      | 22.0     | 0.03       | 0.240    |
| 870827               | 1300 | 43017    | 0.005      |          |          |          |        | 8      |          | 0.01       | 2.760    |
| 870829               | 1300 | 43018    | 0.005      |          |          |          |        | 8      |          | 0.01       | 1.900    |
| 870909               | 1100 | 43019    | 0.004      |          |          |          |        | 8      |          | 0.01<      | 2.260    |
| 870917               | 1100 | 43020    | 0.006      |          |          |          |        | 8      |          | 0.01       | 2.920    |
| 870921               | 1030 | 43022    | 0.008      |          |          |          |        | 8      |          | 0.01       | 4.310    |
| 870923               | 1045 | 43023    | NO DATA BT |          |          |          |        | 8      |          | 0.01       | 4.730    |
| 870925               | 1015 | 43024    | 0.008      |          |          |          |        | 8      |          | 0.01       | 4.400    |
| 870927               | 1345 | 43025    | NO DATA BT |          |          |          |        | 8      |          | 0.01<      | 1.020    |
| 870928               | 1030 | 39515    | 0.011      | 12.5     | 290      | 1.200    | 10AID  | 6      | 17.0     | 0.03       | 0.030    |
| 870930               | 1100 | 43026    | 0.006      |          |          |          |        | 8      |          | 0.01       | 4.650    |
| 871002               | 1100 | 43027    | 0.006      |          |          |          |        | 8      |          | NO DATA SS | 4.560    |
| 871010               | 1330 | 43028    | 0.006      |          |          |          |        | 8      |          |            | 4.010    |
| 871012               | 1430 | 43029    | 0.005      |          |          |          |        | 8      |          |            | 2.940    |
| 871023               | 1100 | 43030    | NO DATA BT |          |          |          |        |        |          | NO DATA BT | 2.190    |
| 871025               | 1200 | 43031    | NO DATA BT |          |          |          |        |        |          | 0.01<      | 1.880    |
| 871026               | 0912 | 39529    | 0.005      | 12.5     | 160      | 1.800    | 70AID  | 6      | 9.0      |            | 0.128    |
| 871031               | 1000 | 43032    | 0.006      |          |          |          |        |        |          | 0.01       | 5.260    |
| 871102               | 1000 | 43033    | 0.006      |          |          |          |        |        |          | 0.03       | 5.350    |
| 871104               | 1000 | 43034    | NO DATA SM |          |          |          |        |        |          | 0.01       | 4.520    |
| 871106               | 1115 | 43035    | 0.002      |          |          |          |        |        |          | 0.01<      | 3.560    |
| 871108               | 1215 | 43036    | 0.006      |          |          |          |        |        |          | 0.01       | 3.900    |
| 871114               | 1230 | 43037    | 0.006      |          |          |          |        | 8      |          | 0.01<      | 0.140    |
| 871124               | 0857 | 39545    | 0.003      | 17.0     | 50AID    | 0.320    | 10AID  | 6      | 6.0      | 0.05       | 0.046    |
| MAXIMUM              |      | 0.011    | 17.0       | 290      | 1.800    | 70       |        | 26.0   | 0.05     | 0.250      | 5.350    |
| ARITH MEAN           |      | 0.005<A  | 12.5       | 81       | 0.957    | 27       |        | 12.7   | 0.02     | 0.136      | 3.100    |
| GEOM MEAN            |      | 0.005<A  | 12.0       | 45       | 0.831    |          |        | 7.4    |          | 0.111      |          |
| MINIMUM              |      | 0.001    | 6.5        | 4        | 0.320    | 8        |        | 0.5    | 0.01     | 0.030      | 0.140    |
| STD DEV (GEOM *)     |      | 0.002<A  | 3.6        | 4*       | 0.508    |          |        | 9.3    |          | 0.081      |          |
| # SAMP IN STATISTICS |      | 38       | 11         | 11       | 9        | 10       |        | 11     | 25       | 11         | 34       |
| % SAMP (EXCLUDED)    |      |          |            |          |          | 9        |        |        | 39       |            | 2        |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

| *=INTERIM |      | TEST-NAME: | NNO2FR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT       | PH       | PHNOL    | POALA   | POMET    | PP04FR |
|-----------|------|------------|----------|----------|----------|----------|------------|----------|----------|---------|----------|--------|
|           |      |            | NO2-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD       |          | PHENOLS  |         |          | P04    |
| SAMPLE    |      | FIL.REAC   | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |            | UNF-REAC | ALACHLOR | METALA- | FIL.REAC |        |
| DATE      | HR   | MG/L       | MG/L     | MG/L     | MG/L     | MG/L     | MG/L       | UG/L     | CHLOR    | CHLOR   | MG/L     |        |
| YYMMDD    | LMT  | AS N       | AS N     | AS N     | AS N     | AS N     | AS PB      | PHENOL   | NG/L     | NG/L    | AS P     |        |
| 870126    | 0950 | 39400      |          | 0.030    | 6.500    | 0.640    | 0.030<     | 8.11     | 1.000<   |         |          |        |
| 870223    | 0913 | 39413      |          | 0.090    | 5.100    | 1.050    | 0.030<     | 7.96     | 1.000    |         |          |        |
| 870323    | 0950 | 39427      |          | 0.030    | 5.500    | 0.760    | 0.003<     | 8.08     | 1.000<   |         |          |        |
| 870427    | 1001 | 39443      |          | 0.100    | 4.200    | 1.200    |            | 8.20     |          |         |          |        |
| 870514    | 1000 | 43000      | 0.1440   |          |          |          | 0.003<     | 8.18     |          | 100<W   | 100<W    | 0.0320 |
| 870515    | 1200 | 43001      | 0.1520   |          |          |          | 0.003<     | 8.25     |          | 100<W   | 1400     | 0.0330 |
| 870520    | 1030 | 43004      | 0.0625   |          |          |          | 0.003<     | 8.09     |          | 100<W   | 1100<W   | 0.0310 |
| 870525    | 1000 | 39459      |          | 0.070    | 2.400    | 1.140    | NO DATA BT | 8.07     | 1.000<   |         |          |        |
| 870527    | 1830 | 43005      | 0.2670>  |          |          |          | 0.003<     | 8.43     |          | 100<W   | 450      | 0.0250 |
| 870608    | 2000 | 43006      | 0.2360>  |          |          |          | 0.003<     | 8.05     |          | 100<W   | 6600     | 0.0765 |
| 870612    | 1100 | 43007      | 0.0875   |          |          |          | 0.003<     | 8.16     |          | 100<W   | 3200     | 0.0570 |
| 870615    | 1100 | 43008      | 0.1470   |          |          |          | 0.003<     | 8.40     |          | 100<W   | 22000    | 0.0335 |
| 870620    | 1900 | 43009      | 0.1530   |          |          |          | 0.003<     | 7.96     |          | 100<W   | 1500     | 0.0270 |
| 870622    | 0930 | 39475      |          | 0.090    | 2.500    | 1.260    | 0.004      | 8.09     | 1.000<   |         |          |        |
|           | 1430 | 43010      | 0.1110   |          |          |          | 0.003<     | 8.00     |          | 100<W   | 1500     | 0.0245 |
| 870626    | 1300 | 43011      | 0.1540   |          |          |          | 0.003<     | 7.85     |          | 100<W   | 370      | 0.0475 |
| 870702    | 1230 | 43012      | 0.2110   |          |          |          | 0.003<     | 8.09     |          | 100<W   | 530      | 0.0505 |
| 870704    | 1830 | 43013      | 0.1160   |          |          |          | 0.004      | 8.05     |          | 100<W   | 950      | 0.0330 |
| 870727    | 0957 | 39488      |          | 0.080    | 1.900    | 1.160    | 0.004      | 8.12     |          |         |          |        |
| 870812    | 1030 | 43014      | 0.0920   |          |          |          | NO DATA RE | 8.03     |          | 100<W   | 650      | 0.0380 |
| 870821    | 1300 | 43015      | 0.1400   |          |          |          | 0.003<     | 8.21     |          | 100<W   | 900      | 0.0215 |
| 870823    | 1330 | 43016      | 0.0820   |          |          |          | 0.003      | 8.14     |          | 100<W   | 100<W    | 0.0400 |
| 870824    | 0954 | 39501      |          | 0.070    | 1.700    | 1.180    | 0.015      | 7.93     | 1.000<   |         |          |        |
| 870827    | 1300 | 43017      | 0.0865   |          |          |          | 0.003<     | 8.02     |          | 100<W   | 100<W    | 0.0645 |
| 870829    | 1300 | 43018      | 0.1370   |          |          |          | 0.004      | 8.07     |          | 100<W   | 630      | 0.0635 |
| 870909    | 1100 | 43019      | 0.0700   |          |          |          | 0.003<     | 8.08     |          | 100<W   | 100<W    | 0.0215 |
| 870917    | 1100 | 43020      | 0.0610   |          |          |          | 0.004      | 8.07     |          | 100<W   | 100<W    | 0.0550 |
| 870921    | 1030 | 43022      | 0.0010<W |          |          |          |            |          |          | 100<W   | 100<W    | 0.0865 |
| 870923    | 1045 | 43023      | 0.0795   |          |          |          | NO DATA BT | 8.09     |          | 100<W   | 100<W    | 0.0950 |
| 870925    | 1015 | 43024      | 0.1000   |          |          |          | 0.003<     | 8.09     |          | 100<W   | 100<W    | 0.0875 |
| 870927    | 1345 | 43025      | 0.0940   |          |          |          | NO DATA BT | 8.04     |          | 100<W   | 100<W    | 0.0635 |
| 870928    | 1030 | 39515      |          | 0.070    | 4.300    | 1.160    | 0.003<     | 8.09     | 1.000<   |         |          |        |
| 870930    | 1100 | 43026      | 0.1040   |          |          |          | 0.003<     | 8.12     |          | 100<W   | 100<W    | 0.0470 |
| 871002    | 1100 | 43027      | 0.0905   |          |          |          | 0.003<     | 8.14     |          | 100<W   | 100<W    | 0.0490 |
| 871010    | 1330 | 43028      | 0.0975   |          |          |          | 0.003<     | 8.15     |          | 100<W   | 100<W    | 0.0900 |
| 871012    | 1430 | 43029      | 0.0745   |          |          |          | 0.003<     | 8.24     |          | 100<W   | 100<W    | 0.0480 |
| 871023    | 1100 | 43030      | 0.0300   |          |          |          | NO DATA BT | 7.95     |          | 100<W   | 100<W    | 0.0375 |
| 871025    | 1200 | 43031      | 0.0315   |          |          |          | NO DATA BT | 8.00     |          |         |          | 0.0370 |
| 871026    | 0912 | 39529      |          | 0.020    | 2.600    | 1.000    | 0.003<     | 7.96     | 1.000<   |         |          |        |
| 871031    | 1000 | 43032      | 0.0445   |          |          |          | 0.003<     | 8.10     |          | 100<W   | 100<W    | 0.0420 |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

| *=INTERIM TEST-NAME: |                      | NN02FR   | NN02UR   | NN03UR   | NNTKUR   | PBUT       | PH     | PHNOL    | POALA    | POMET   | PP04FR   |
|----------------------|----------------------|----------|----------|----------|----------|------------|--------|----------|----------|---------|----------|
|                      |                      | NO2-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD       |        | PHENOLS  |          |         | PO4      |
| SAMPLE               |                      | FIL.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT.   |        | UNF-REAC |          | METALA- | FIL.REAC |
| DATE                 | HR                   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L       |        | UG/L     | ALACHLOR | CHLOR   | MG/L     |
| YYMMDD               | LMT                  | AS N     | AS N     | AS N     | AS N     | AS PB      | PH     | PHENOL   | NG/L     | NG/L    | AS P     |
| 871102               | 1000                 | 43033    | 0.0695   |          |          | 0.003<     | 8.11   |          | 100<W    | 100<W   | 0.0570   |
| 871104               | 1000                 | 43034    | 0.0750   |          |          | NO DATA SM | 8.18   |          | 100<W    | 100<W   | 0.0580   |
| 871106               | 1115                 | 43035    | 0.0655   |          |          | 0.004      | 8.14   |          | 100<W    | 100<W   | 0.0450   |
| 871108               | 1215                 | 43036    | 0.0510   |          |          | 0.003<     | 8.35   |          | 100<W    | 100<W   | 0.0300   |
| 871114               | 1230                 | 43037    | 0.0465   |          |          | 0.003<     | 8.33   |          | 100<W    | 100<W   | 0.0115   |
| 871124               | 0857                 | 39545    |          | 0.050    | 3.600    | 0.980      | 0.003< | 8.13     | 1.000<   |         |          |
|                      | MAXIMUM              | 0.2110   | 0.100    | 6.500    | 1.260    | 0.015      | 8.43   | 1.000    | 100      | 22000   | 0.0950   |
|                      | ARITH MEAN           | 0.0928<A | 0.064    | 3.664    | 1.048    | 0.005      | 8.11   | 1.000    | 100<A    | 1288<A  | 0.0474   |
|                      | GEOM MEAN            |          | 0.057    | 3.350    | 1.029    |            | 8.11   |          | 100<A    | 290<A   | 0.0429   |
|                      | MINIMUM              | 0.0010   | 0.020    | 1.700    | 0.640    | 0.003      | 7.85   | 1.000    | 100      | 100     | 0.0115   |
|                      | STD DEV (GEOM *)     |          | 0.027    | 1.588    | 0.194    |            | 0.12   |          | 0<A      | 3863<A  | 0.0211   |
|                      | # SAMP IN STATISTICS | 33       | 11       | 11       | 11       | 8          | 45     | 1        | 34       | 34      | 35       |
|                      | % SAMP (EXCLUDED)    | 5        |          |          |          | 78         |        | 88       |          |         |          |

| *=INTERIM TEST-NAME: |      | PP04UR   | PPUT     | P1ALDR | P1BHCG | P1CHLA   | P1DIEL   | P1DMDT   | P1ENDR | P1ENDT   | P1HEPE  |
|----------------------|------|----------|----------|--------|--------|----------|----------|----------|--------|----------|---------|
|                      |      | PO4      | PHOSPHOR |        | BHC    | CHLRDANE |          | DMDT     |        | ENDOSULP | HEPTA   |
| SAMPLE               |      | UNF.REAC | UNF.TOT. |        | GAMMA  | ALPHA    |          | MTHXYLLR | ENDRIN | TOTAL    | CHLOR   |
| DATE                 | HR   | MG/L     | MG/L     | ALDRIN | NG/L   | NG/L     | DIELDRIN | NG/L     | NG/L   | NG/L     | EPOXIDE |
| YYMMDD               | LMT  | AS P     | AS P     | NG/L   |        |          |          |          |        |          | NG/L    |
| 870126               | 0950 | 39400    | 0.024    | 0.049  |        |          |          |          |        |          |         |
| 870223               | 0913 | 39413    | 0.019    | 0.115  |        |          |          |          |        |          |         |
| 870323               | 0950 | 39427    | 0.046    | 0.059  |        |          |          |          |        |          |         |
| 870427               | 1001 | 39443    | 0.010    | 0.170  |        |          |          |          |        |          |         |
| 870514               | 1000 | 43000    |          | 0.076  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870515               | 1200 | 43001    |          | 0.099  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870520               | 1030 | 43004    |          | 0.099  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870525               | 1000 | 39459    | 0.002    | 0.138  |        |          |          |          |        |          |         |
| 870527               | 1830 | 43005    |          | 0.056  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870608               | 2000 | 43006    |          | 0.163  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870612               | 1100 | 43007    |          | 0.116  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870615               | 1100 | 43008    |          | 0.093  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870620               | 1900 | 43009    |          | 0.098  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870622               | 0930 | 39475    | 0.013    | 0.102  |        |          |          |          |        |          |         |
|                      | 1430 | 43010    |          | 0.090  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870626               | 1300 | 43011    |          | 0.123  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870702               | 1230 | 43012    |          | 0.138  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870704               | 1830 | 43013    |          | 0.133  | 40<W   | 40<W     | 10<W     | 1<W      | 40<W   | 20<W     | 5<W     |
| 870727               | 0957 | 39488    | 0.001<   | 0.088  |        |          |          |          |        |          |         |

( C O N T D )



B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-007-82

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

| *=INTERIM TEST-NAME: |      | PP04UR               | PPUT     | P1ALDR | P1BHCG | P1CHLA   | P1DIEL   | P1DMDT   | P1ENDR | P1ENDT   | P1HEPE  |
|----------------------|------|----------------------|----------|--------|--------|----------|----------|----------|--------|----------|---------|
|                      |      | PO4                  | PHOSPHOR |        |        |          |          |          |        |          |         |
|                      |      | UNF.REAC             | UNF.TOT. |        | BHC    | CHLRDANE |          | DMDT     |        | ENDOSULP | HEPTA   |
| SAMPLE               |      | MG/L                 | MG/L     | ALDRIN | GAMMA  | ALPHA    | DIELDRIN | MTHXYLLR | ENDRIN | TOTAL    | CHLOR   |
| DATE                 | HR   | AS P                 | AS P     | NG/L   | NG/L   | NG/L     | NG/L     | NG/L     | NG/L   | NG/L     | EPOXIDE |
| YYMMDD               | LMT  |                      |          |        |        |          |          |          |        |          | NG/L    |
| 870812               | 1030 | 43014                | 0.075    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870821               | 1300 | 43015                | 0.080    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870823               | 1330 | 43016                | 0.128    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870824               | 0954 | 39501                | 0.098    |        |        |          |          |          |        |          |         |
| 870827               | 1300 | 43017                | 0.122    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870829               | 1300 | 43018                | 0.131    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870909               | 1100 | 43019                | 0.064    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870917               | 1100 | 43020                | 0.117    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870921               | 1030 | 43022                |          | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870923               | 1045 | 43023                | 0.173    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870925               | 1015 | 43024                | 0.188    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870927               | 1345 | 43025                | 0.128    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 870928               | 1030 | 39515                | 0.126    |        |        |          |          |          |        |          |         |
| 870930               | 1100 | 43026                | 0.112    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871002               | 1100 | 43027                | 0.110    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871010               | 1330 | 43028                | 0.053    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871012               | 1430 | 43029                | 0.048    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871023               | 1100 | 43030                | 0.098    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871025               | 1200 | 43031                | 0.100    |        |        |          |          |          |        |          |         |
| 871026               | 0912 | 39529                | 0.124    |        |        |          |          |          |        |          |         |
| 871031               | 1000 | 43032                | 0.097    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871102               | 1000 | 43033                | 0.109    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871104               | 1000 | 43034                | 0.120    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871106               | 1115 | 43035                | 0.105    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871108               | 1215 | 43036                | 0.097    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871114               | 1230 | 43037                | 0.074    | 40<W   | 40<W   | 10<W     | 1<W      | 40<W     | 20<W   | 5<W      | 2<W     |
| 871124               | 0857 | 39545                | 0.015    | 0.084  |        |          |          |          |        |          |         |
|                      |      | MAXIMUM              | 0.048    | 0.188  | 40     | 40       | 10       | 1        | 40     | 20       | 5       |
|                      |      | ARITH MEAN           | 0.026    | 0.106  | 40<A   | 40<A     | 10<A     | 1<A      | 40<A   | 20<A     | 5<A     |
|                      |      | GEOM MEAN            |          | 0.101  | 40<A   | 40<A     | 10<A     | 1<A      | 40<A   | 20<A     | 5<A     |
|                      |      | MINIMUM              | 0.002    | 0.048  | 40     | 40       | 10       | 1        | 40     | 20       | 5       |
|                      |      | STD DEV (GEOM *)     |          | 0.032  | 0<A    | 0<A      | 0<A      | 0<A      | 0<A    | 0<A      | 0<A     |
|                      |      | # SAMP IN STATISTICS | 10       | 45     | 34     | 34       | 34       | 34       | 34     | 34       | 34      |
|                      |      | % SAMP (EXCLUDED)    | 9        |        |        |          |          |          |        |          |         |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

| *=INTERIM                | TEST-NAME:  | P1HEPT           | P1MIRX           | P1OPDT        | P1PCBT         | P1PPDE               | P1PPDT         | P2ATRA         | P2CYAN           | P2CYPR           | P2DATR           |                             |
|--------------------------|-------------|------------------|------------------|---------------|----------------|----------------------|----------------|----------------|------------------|------------------|------------------|-----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | HEPACHOR<br>NG/L | MIREX<br>NG/L | OP-DDT<br>NG/L | PCB<br>TOTAL<br>NG/L | PP-DDE<br>NG/L | PP-DDT<br>NG/L | ATRAZINE<br>NG/L | CYNAZINE<br>NG/L | CYPRAZIN<br>NG/L | DE-ETYL<br>ATRAZINE<br>NG/L |
| 870514                   | 1000        | 43000            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 20<W             | 20<W             | 20<W             | 20<W                        |
| 870515                   | 1200        | 43001            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 460              | 20<W             | 20<W             | 300                         |
| 870520                   | 1030        | 43004            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 300              | 20<W             | 20<W             | 200                         |
| 870527                   | 1830        | 43005            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 640              | 20<W             | 20<W             | 700                         |
| 870608                   | 2000        | 43006            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 8200             | 890              | 20<W             | 490                         |
| 870612                   | 1100        | 43007            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 4400             | 20<W             | 20<W             | 420                         |
| 870615                   | 1100        | 43008            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 3200             | 20<W             | 20<W             | 360                         |
| 870620                   | 1900        | 43009            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 2500             | 20<W             | 20<W             | 330                         |
| 870622                   | 1430        | 43010            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 2400             | 20<W             | 20<W             | 300                         |
| 870626                   | 1300        | 43011            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1500             | 180              | 20<W             | 220                         |
| 870702                   | 1230        | 43012            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 680              | 20<W             | 20<W             | 90                          |
| 870704                   | 1830        | 43013            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1400             | 20<W             | 20<W             | 340                         |
| 870812                   | 1030        | 43014            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1200             | 320              | 20<W             | 350                         |
| 870821                   | 1300        | 43015            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 2000             | 20<W             | 20<W             | 350                         |
| 870823                   | 1330        | 43016            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1600             | 20<W             | 20<W             | 340                         |
| 870827                   | 1300        | 43017            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1200             | 20<W             | 20<W             | 180                         |
| 870829                   | 1300        | 43018            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1500             | 20<W             | 20<W             | 20<W                        |
| 870909                   | 1100        | 43019            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 780              | 20<W             | 20<W             | 190                         |
| 870917                   | 1100        | 43020            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 620              | 20<W             | 20<W             | 20<W                        |
| 870921                   | 1030        | 43022            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 850              | 20<W             | 20<W             | 20<W                        |
| 870923                   | 1045        | 43023            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 970              | 20<W             | 20<W             | 20<W                        |
| 870925                   | 1015        | 43024            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 890              | 20<W             | 20<W             | 500                         |
| 870927                   | 1345        | 43025            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1100             | 20<W             | 20<W             | 380                         |
| 870930                   | 1100        | 43026            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 700              | 20<W             | 20<W             | 260                         |
| 871002                   | 1100        | 43027            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 930              | 20<W             | 20<W             | 200                         |
| 871010                   | 1330        | 43028            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 390              | 20<W             | 20<W             | 200                         |
| 871012                   | 1430        | 43029            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 410              | 20<W             | 20<W             | 180                         |
| 871023                   | 1100        | 43030            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 330              | 20<W             | 20<W             | 90                          |
| 871031                   | 1000        | 43032            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 900              | 20<W             | 20<W             | 160                         |
| 871102                   | 1000        | 43033            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 900              | 20<W             | 20<W             | 160                         |
| 871104                   | 1000        | 43034            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 330              | 20<W             | 20<W             | 110                         |
| 971106                   | 1115        | 43035            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 510              | 20<W             | 20<W             | 300                         |
| 871108                   | 1215        | 43036            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 480              | 20<W             | 20<W             | 340                         |
| 871114                   | 1230        | 43037            | 40<W             | 40<W          | 2<W            | 6<W                  | 1<W            | 2<W            | 1000             | 20<W             | 20<W             | 210                         |
| MAXIMUM                  |             |                  | 40               | 40            | 2              | 6                    | 1              | 2              | 8200             | 890              | 20               | 700                         |
| ARITH MEAN               |             |                  | 40<A             | 40<A          | 2<A            | 6<A                  | 1<A            | 2<A            | 1332<A           | 59<A             | 20<A             | 246<A                       |
| GEOM MEAN                |             |                  | 40<A             | 40<A          | 2<A            | 6<A                  | 1<A            | 2<A            | 875<A            | 26<A             | 20<A             | 175<A                       |
| MINIMUM                  |             |                  | 40               | 40            | 2              | 6                    | 1              | 2              | 20               | 20               | 20               | 20                          |
| STD DEV (GEOM *)         |             |                  | 0<A              | 0<A           | 0<A            | 0<A                  | 0<A            | 0<A            | 1510<A           | 158<A            | 0<A              | 157<A                       |
| # SAMP IN STATISTICS     |             |                  | 34               | 34            | 34             | 34                   | 34             | 34             | 34               | 34               | 34               | 34                          |
| % SAMP (EXCLUDED)        |             |                  |                  |               |                |                      |                |                |                  |                  |                  |                             |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

| *=INTERIM            |      | TEST-NAME:       | P2PROM           | P2SENC         | P2SIM            | P4CLFN<br>CHLORO<br>FENVIN | P4DEMT          | P4DIAZ           | P4DIME           | P4DURS          | P4ETHI         | P4GUTH          |
|----------------------|------|------------------|------------------|----------------|------------------|----------------------------|-----------------|------------------|------------------|-----------------|----------------|-----------------|
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>NUMBER | PROMETON<br>NG/L | SENCOR<br>NG/L | SIMAZINE<br>NG/L | PHOS<br>NG/L               | DEMETON<br>NG/L | DIAZINON<br>NG/L | DIMETHOK<br>NG/L | DURSBAN<br>NG/L | ETHION<br>NG/L | GUTHION<br>NG/L |
| YYMMDD               | LMT  |                  |                  |                |                  |                            |                 |                  |                  |                 |                |                 |
| 870514               | 1000 | 43000            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870515               | 1200 | 43001            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870520               | 1030 | 43004            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870527               | 1830 | 43005            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870608               | 2000 | 43006            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870612               | 1100 | 43007            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870615               | 1100 | 43008            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870620               | 1900 | 43009            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870622               | 1430 | 43010            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870626               | 1300 | 43011            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870702               | 1230 | 43012            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870704               | 1830 | 43013            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870812               | 1030 | 43014            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870821               | 1300 | 43015            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870823               | 1330 | 43016            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870827               | 1300 | 43017            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870829               | 1300 | 43018            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870909               | 1100 | 43019            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870917               | 1100 | 43020            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870921               | 1030 | 43022            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870923               | 1045 | 43023            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870925               | 1015 | 43024            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870927               | 1345 | 43025            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 870930               | 1100 | 43026            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871002               | 1100 | 43027            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871010               | 1330 | 43028            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871012               | 1430 | 43029            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871023               | 1100 | 43030            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871031               | 1000 | 43032            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871102               | 1000 | 43033            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871104               | 1000 | 43034            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871106               | 1115 | 43035            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 371108               | 1215 | 43036            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| 871114               | 1230 | 43037            | 20<W             | 20<W           | 20<W             | 1000<W                     | 1000<W          | 50<W             | 250<W            | 100<W           | 100<W          | 5000<W          |
| MAXIMUM              |      |                  | 20               | 20             | 20               | 1000                       | 1000            | 50               | 250              | 100             | 100            | 5000            |
| ARITH MEAN           |      |                  | 20<A             | 20<A           | 20<A             | 1000<A                     | 1000<A          | 50<A             | 250<A            | 100<A           | 100<A          | 5000<A          |
| GEOM MEAN            |      |                  | 20<A             | 20<A           | 20<A             | 1000<A                     | 1000<A          | 50<A             | 250<A            | 100<A           | 100<A          | 5000<A          |
| MINIMUM              |      |                  | 20               | 20             | 20               | 1000                       | 1000            | 50               | 250              | 100             | 100            | 5000            |
| STD DEV (GEOM *)     |      |                  | 0<A              | 0<A            | 0<A              | 0<A                        | 0<A             | 0<A              | 0<A              | 0<A             | 0<A            | 0<A             |
| # SAMP IN STATISTICS |      |                  | 34               | 34             | 34               | 34                         | 34              | 34               | 34               | 34              | 34             | 34              |
| % SAMP (EXCLUDED)    |      |                  |                  |                |                  |                            |                 |                  |                  |                 |                |                 |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

| *=INTERIM                         | TEST-NAME:       | P4LEPO           | P4MALA           | P4PALO           | P4PARA           | P4PMET          | RSF                         | RSP                        | TURB            | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|----------------------------|-----------------|---|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER | LEPTPHOS<br>NG/L | MALTHION<br>NG/L | PHOSLONE<br>NG/L | PARTHION<br>NG/L | PHOSMET<br>NG/L | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU |   |
| 870126 0950                       | 39400            |                  |                  |                  |                  |                 | 471.0                       | 9.0                        | 13.40           | 0.010                                     |
| 870223 0913                       | 39413            |                  |                  |                  |                  |                 | 514.4                       | 51.6                       | 46.00           | 0.014                                     |
| 870323 0950                       | 39427            |                  |                  |                  |                  |                 | 399.8                       | 30.2                       | 36.00           | 0.004                                     |
| 870427 1001                       | 39443            |                  |                  |                  |                  |                 | 365.2                       | 88.8                       | 80.00           |   |
| 870514 1000                       | 43000            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 38.6                       |                 |   |
| 870515 1200                       | 43001            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 46.8                       |                 |   |
| 870520 1030                       | 43004            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 37.7                       |                 |   |
| 870525 1000                       | 39459            |                  |                  |                  |                  |                 | 401.9                       | 98.1                       | 54.00           | NO DATA BT                                |
| 870527 1830                       | 43005            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 23.8                       |                 |   |
| 870608 2000                       | 43006            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 44.6                       |                 |   |
| 870612 1100                       | 43007            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 41.2                       |                 |   |
| 870615 1100                       | 43008            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 40.3                       |                 |   |
| 870620 1900                       | 43009            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 31.8                       |                 |   |
| 870622 0930                       | 39475            |                  |                  |                  |                  |                 | 368.1                       | 21.9                       | 25.00           | 0.006                                     |
| 1430                              | 43010            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 19.3                       |                 |   |
| 870626 1300                       | 43011            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 42.9                       |                 |   |
| 870702 1230                       | 43012            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 44.8                       |                 |   |
| 870704 1830                       | 43013            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 46.7                       |                 |   |
| 870727 0957                       | 39488            |                  |                  |                  |                  |                 | 350.9                       | 23.1                       | 27.00           | 0.001<W                                   |
| 870812 1030                       | 43014            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 37.4                       |                 |   |
| 870821 1300                       | 43015            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 19.2                       |                 |   |
| 870823 1330                       | 43016            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 41.4                       |                 |   |
| 870824 0954                       | 39501            |                  |                  |                  |                  |                 | 393.5                       | 28.5                       | 32.00           | 0.007                                     |
| 870827 1300                       | 43017            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 34.3                       |                 |   |
| 870829 1300                       | 43018            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 29.5                       |                 |   |
| 870909 1100                       | 43019            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 13.0                       |                 |   |
| 870917 1100                       | 43020            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 25.8                       |                 |   |
| 870921 1030                       | 43022            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             |                            |                 |   |
| 870923 1045                       | 43023            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 49.7                       |                 |   |
| 870925 1015                       | 43024            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 25.2                       |                 |   |
| 870927 1345                       | 43025            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 18.6                       |                 |   |
| 870928 1030                       | 39515            |                  |                  |                  |                  |                 | 437.0                       | 29.0                       | 56.00           | 0.005                                     |
| 870930 1100                       | 43026            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 30.6                       |                 |   |
| 871002 1100                       | 43027            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 40.5                       |                 |   |
| 871010 1330                       | 43028            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 26.2                       |                 |   |
| 871012 1430                       | 43029            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 19.2                       |                 |   |
| 871023 1100                       | 43030            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 31.6                       |                 |   |
| 871025 1200                       | 43031            |                  |                  |                  |                  |                 |                             | 38.5                       |                 |   |
| 871026 0912                       | 39529            |                  |                  |                  |                  |                 | 417.5                       | 46.5                       | 55.00           | 0.011                                     |
| 871031 1000                       | 43032            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 36.9                       |                 |   |
| 871102 1000                       | 43033            | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          |                             | 35.3                       |                 |   |

( C O N T D )

## 37

STORET CODE: 02  
003  
2870

[illegible]

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT PARK STREET BRIDGE, ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

|                      |      |            |      | LAT: 43 15 18.72 |          | LONG: 081 08 43.33 |          | U T M: 17 0488200.0 4788950.0 4 |          | REGION: 01 |          | DISTANCE: 254.752 |         |
|----------------------|------|------------|------|------------------|----------|--------------------|----------|---------------------------------|----------|------------|----------|-------------------|---------|
| *=INTERIM            |      | TEST-NAME: |      | FWSADP           | FGPROJ   | ALKT               | CLIDUR   | CLIDUR                          | COND25   | FCMF       | FMSF     | FWFLOW            | FWSTRC  |
|                      |      |            |      |                  |          | ALK                | CHLORIDE | CHLORIDE                        | CONDUCT. | FECAL      | FECAL    |                   |         |
|                      |      |            |      |                  | PROJECT  | TOTAL              | UNF.REAC | UNF.REAC                        | 25C      | COLIFORM   | STREPCUS | STREAM            |         |
| SAMPLE               |      | SAMPLE     |      | DEPTH            | SUB-PROJ | MG/L               | MG/L     | MG/L                            | UMHO/CM  | MF         | MF       | FLOW              |         |
| DATE                 |      | NUMBER     |      | M                | CODE     | AS                 | AS       | AS                              | AT       | CNT        | CNT      | M3                | STREAM  |
| YYMMDD               |      |            |      |                  |          | CAC03              | CL       | CL-                             | 25 C     | /100ML     | /100ML   | /S                | COND.   |
| 870120               | 0840 | 38401      | 0.30 | 0101             |          |                    |          | 27.500                          | 700.0    | 130        | 20AID    | 7.400             | 6       |
| 870211               | 1045 | 38428      | 0.30 | 0101             |          |                    |          | 40.000                          | 740.0    | 556        | 16       | 4.970             | 6       |
| 870316               | 1045 | 38455      | 0.30 | 0101             |          |                    |          | 20.500                          | 610.0    |            |          | 16.200            | 6       |
| 870420               | 1045 | 38482      | 0.30 | 0101             |          |                    |          | 22.000                          | 520.0    | 52         | 4        | 8.210             | 6       |
| 870519               | 1045 | 38509      | 0.30 | 0101             |          |                    |          | 31.000                          | 575.0    | 176        | 24       | 2.790             |         |
| 870616               | 1045 | 38536      | 0.30 | 0101             |          |                    |          | 40.000                          | 535.0    | 172        | 36       | 1.840             | 6       |
| 870721               | 1045 | 38563      | 0.30 | 0101             |          |                    |          | 29.500                          | 540.0    | 1900       | 2100     | 6.420             | 6       |
| 870817               | 1045 | 38590      | 0.30 | 0101             |          |                    |          | 33.000                          | 453.0    | 1080       | 280      | 1.520             | 6       |
| 870921               | 0915 | 38617      | 0.30 | 0101             |          | 24.220             |          |                                 | 398.0    | 1500>      | 750      | 2.100             | 6       |
| 871020               | 1045 | 38644      | 0.30 | 0101             | 140.8    | 26.640             |          |                                 | 436.0    | 630        | 150      | 2.090             | 6       |
| 871116               | 0840 | 38671      | 0.30 | 0101             |          | 33.880             |          |                                 | 680.0    | 40AID      | 110      | 5.740             | 6       |
| 871214               | 1045 | 38698      | 0.30 | 0101             |          | 32.630             |          |                                 | 645.0    | 350        | 140      | 16.400            | 6       |
| MAXIMUM              |      |            | 0.30 |                  | 140.8    | 33.880             | 40.000   | 740.0                           | 1900     | 2100       |          | 16.400            |         |
| ARITH MEAN           |      |            | 0.30 |                  | 140.8    | 29.342             | 30.437   | 569.3                           | 509      | 330        |          | 6.307             |         |
| GEOM MEAN            |      |            |      |                  |          | 29.061             | 29.660   | 559.5                           |          | 82         |          | 4.646             |         |
| MINIMUM              |      |            | 0.30 |                  | 140.8    | 24.220             | 20.500   | 398.0                           | 40       | 4          |          | 1.520             |         |
| STD DEV (GEOM *)     |      |            |      |                  |          | 4.653              | 7.263    | 109.1                           |          | 6*         |          | 5.200             |         |
| # SAMP IN STATISTICS |      |            | 12   |                  | 1        | 4                  | 8        | 12                              | 10       | 11         | 12       |                   |         |
| % SAMP (EXCLUDED)    |      |            |      |                  |          |                    |          |                                 | 9        |            |          |                   |         |
| *=INTERIM            |      | TEST-NAME: |      | FWTEMP           | NNHTUR   | NNO2UR             | NNO3UR   | NNTKUR                          | PH       | PP04UR     | PPUT     | PSAMF             | RSP     |
|                      |      |            |      |                  | NH3-N    |                    |          | K'DAHL N                        |          |            |          | PSEUDOMN          |         |
|                      |      |            |      |                  | TOTAL    | NO2-N              | NO3-N    | TOTAL                           |          | P04        | PHOSPHOR | AERUG.            |         |
| SAMPLE               |      | SAMPLE     |      | WATER            | UNF.REAC | UNF.REAC           | UNF.REAC | UNF.REAC                        |          | UNF.REAC   | UNF.TOT. | MF                | RESIDUE |
| DATE                 |      | NUMBER     |      | TEMP             | MG/L     | MG/L               | MG/L     | MG/L                            |          | MG/L       | MG/L     | CNT               | PARTIC. |
| YYMMDD               |      |            |      | DEG.C            | AS N     | AS N               | AS N     | AS N                            | PH       | AS P       | AS P     | /100ML            | MG/L    |
| 870120               | 0840 | 38401      | 0.5  | 0.065            | 0.010    | 5.600              | 0.520    | 8.28                            | 0.008    | 0.023      |          | 4<                | 5.0 <   |
| 870211               | 1045 | 38428      | 0.5  | 0.440            | 0.040    | 3.900              | 1.120    | 7.98                            | 0.025    | 0.057      |          | 4<                | 4.7     |
| 870316               | 1045 | 38455      | 1.0  | 0.210            | 0.030    | 5.400              | 0.840    | 7.73                            | 0.071    | 0.101      |          |                   | 2.5     |
| 870420               | 1045 | 38482      | 12.0 | 0.045            | 0.040    | 3.900              | 0.730    | 8.18                            | 0.011    | 0.039      |          | 4<                | 5.0 <   |
| 870519               | 1045 | 38509      |      | 0.035            | 0.060    | 0.060              | 0.840    | 8.22                            | 0.009    | 0.052      |          | 4<                | 5.0 <   |
| 870616               | 1045 | 38536      | 23.0 | 0.045            | 0.050    | 0.900              | 1.040    | 8.51                            | 0.004    | 0.123      |          | 4<                | 17.4    |
| 870721               | 1045 | 38563      | 26.0 | 0.095            | 0.040    | 0.800              | 1.560    | 8.14                            | 0.058    | 0.135      | 20       |                   | 19.6    |
| 870817               | 1045 | 38590      | 24.5 | 0.030            | 0.050    | 0.500              | 0.980    | 8.05                            | 0.001<   | 0.102      | 16       |                   | 17.1    |
| 870921               | 0915 | 38617      | 16.0 | 0.005<           | 0.020    | 0.400              | 1.030    | 5.21                            | 0.022    | 0.100      | 4        |                   | 24.6    |
| 871020               | 1045 | 38644      | 8.5  | 0.270            | 0.030    | 1.000              | 1.300    | 7.91                            | 0.008    | 0.102      |          | 4<                | 23.4    |
| 871116               | 0840 | 38671      | 5.0  | 0.001<           | 0.010    | 8.200              | 0.640    | 8.28                            | 0.003    | 0.026      |          | 4<                | 5.00<   |
| 871214               | 1045 | 38698      | 2.5  | 0.333            | 0.010    | 11.200             | 0.670    | 8.04                            | 0.007    | 0.060      |          | 4<                | 4.9     |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT PARK STREET BRIDGE, ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 15 18.72 LONG: 081 08 43.33 U T M: 17 0488200.0 4788950.0 4 REGION: 01 DISTANCE: 254.752

| *=INTERIM TEST-NAME:     |                     | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |
|--------------------------|---------------------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|------|---------------------------|------------------------------|--|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH   | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     | /100ML                                   |                                   |
| MAXIMUM                  |                     | 26.0                   | 0.440                    | 0.060                    | 11.200                   | 1.560                       | 8.51 | 0.071                     | 0.135                        | 20                                       | 24.6                              |
| ARITH MEAN               |                     | 10.9                   | 0.157                    | 0.032                    | 3.488                    | 0.939                       | 7.88 | 0.021                     | 0.077                        | 13                                       | 14.3                              |
| GEOM MEAN                |                     | 5.2                    |                          | 0.027                    | 1.635                    | 0.898                       | 7.82 |                           | 0.066                        |  |                                   |
| MINIMUM                  |                     | 0.5                    | 0.030                    | 0.010                    | 0.060                    | 0.520                       | 5.21 | 0.003                     | 0.023                        | 4  | 2.5                               |
| STD DEV (GEOM *)         |                     | 10.1                   |                          | 0.017                    | 3.573                    | 0.297                       | 0.86 |                           | 0.038                        |  |                                   |
| # SAMP IN STATISTICS     |                     | 11                     | 10                       | 12                       | 12                       | 12                          | 12   | 11                        | 12                           | 3  | 8                                 |
| % SAMP (EXCLUDED)        |                     |                        | 16                       |                          |                          |                             |      | 8                         |                              | 72                                       | 33                                |

\*=INTERIM TEST-NAME: TURB

| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | SAMPLE<br>NUMBER | TURB'ITY<br>FTU |
|--------------------------|---------------------|------------------|-----------------|
| 870120                   | 0840                | 38401            | 2.10            |
| 870211                   | 1045                | 38428            | 4.00            |
| 870316                   | 1045                | 38455            | 4.40            |
| 870420                   | 1045                | 38482            | 4.60            |
| 870519                   | 1045                | 38509            | 5.40            |
| 870616                   | 1045                | 38536            | 5.10            |
| 870721                   | 1045                | 38563            | 15.20           |
| 870817                   | 1045                | 38590            | 12.70           |
| 870921                   | 0915                | 38617            | 30.00           |
| 871020                   | 1045                | 38644            | 24.00           |
| 871116                   | 0840                | 38671            | 3.90            |
| 871214                   | 1045                | 38698            | 4.50            |

MAXIMUM 30.00  
 ARITH MEAN 9.66  
 GEOM MEAN 6.89  
 MINIMUM 2.10  
 STD DEV (GEOM \*) 9.05  
 # SAMP IN STATISTICS 12  
 % SAMP (EXCLUDED)

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT DUNDAS STREET WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 07 36.34 LONG: 080 46 45.59

U T M: 17 0517950.0 4774700.0 4

REGION: 01

DISTANCE: 258.132

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |                      |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |                      |          | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE               | PROJECT  | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HR   | DEPTH                | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER               | CODE     |          |          |          |          |          |          |          |          |
| 870121               | 1245 | 38422                | 0101     | 265.0    | 1.29     |          | 56.000   | 800.0    | 0.004    | 13.0     | 550      |
| 870212               | 0905 | 38449                | 0101     | 266.0    | 1.53     |          | 78.500   | 930.0    | 0.005    |          | 470      |
| 870317               | 0905 | 38476                | 0101     | 242.0    | 1.36     |          | 65.000   | 790.0    | 0.003    |          | 570      |
| 870421               | 0905 | 38503                | 0101     | 206.0    | 2.79     |          | 39.500   | 645.0    | 0.005    | 17.0     | 24       |
| 870520               | 0905 | 38530                | 0101     | 190.0    | 3.62     |          | 73.500   | 770.0    | 0.006    | 16.0     | 216      |
| 870617               | 0905 | 38557                | 0101     | 188.0    | 2.43     |          | 64.000   | 735.0    | 0.006    | 13.0     | 296      |
| 870722               | 0905 | 38584                | 0101     | 176.0    | 2.44     |          | 46.000   | 615.0    | 0.004    | 13.0     | 740      |
| 870818               | 0905 | 38611                | 0101     | 174.0    | 5.08     |          | 56.000   | 620.0    | 0.006    | 17.0     | 1100     |
| 870923               | 1355 | 38638                | 0101     | 233.4    | 3.66     | 61.110   |          | 670.0    | 0.006    | 11.0     | 710      |
| 871021               | 0905 | 38665                | 0101     | 173.7    | 4.22     | 55.290   |          | 710.0    | 0.005    | 8.0      | 90AID    |
| 871118               | 1245 | 38692                | 0101     | 231.5    | 5.89     | 55.920   |          | 710.0    | 0.005    | 12.0     | 600>     |
| 871216               | 0905 | 38719                | 0101     | 236.5    | 2.44     | 52.230   |          | 735.0    | 0.002    | 13.0     | 1500>    |
|                      |      | MAXIMUM              | 0.30     | 266.0    | 5.89     | 61.110   | 78.500   | 930.0    | 0.006    | 17.0     | 1100     |
|                      |      | ARITH MEAN           | 0.30     | 215.2    | 3.06     | 56.137   | 59.812   | 727.5    | 0.005    | 13.3     | 477      |
|                      |      | GEOM MEAN            |          | 212.6    | 2.74     | 56.048   | 58.479   | 722.7    | 0.005    | 13.0     |          |
|                      |      | MINIMUM              | 0.30     | 173.7    | 1.29     | 52.230   | 39.500   | 615.0    | 0.002    | 8.0      | 24       |
|                      |      | STD DEV (GEOM *)     |          | 34.7     | 1.47     | 3.686    | 13.166   | 88.9     | 0.001    | 2.8      |          |
|                      |      | # SAMP IN STATISTICS | 12       | 12       | 12       | 4        | 8        | 12       | 12       | 10       | 10       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          |          |          | 16       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|----------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                      |      | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                      |      | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
|                      |      | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
|                      |      | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      |
| SAMPLE               |      | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   |
| DATE                 | HR   |          |        |        |        |          |          |          |          |          |      |
| YYMMDD               | LMT  | NUMBER   |        |        |        |          |          |          |          |          |      |
| 870121               | 1245 | 38422    | 2.120  | 6      | 0.5    | 0.015    | 0.090    | 8.200    | 0.630    | 0.003<   | 8.08 |
| 870212               | 0905 | 38449    | 0.970  | 6      | 1.0    | 0.195    | 0.030    | 6.100    | 0.520    | 0.003<   | 7.94 |
| 870317               | 0905 | 38476    | 0.774  | 6      | 2.0    | 0.200    | 0.020    | 8.000    | 0.680    | 0.003<   | 7.90 |
| 870421               | 0905 | 38503    | 2.560  | 6      | 14.5   | 0.110    | 0.050    | 6.500    | 0.910    | 0.003<   | 7.98 |
| 870520               | 0905 | 38530    | 0.486  | 6      | 14.0   | 0.070    | 0.200    | 6.500    | 1.140    | 0.003<   | 7.66 |
| 870617               | 0905 | 38557    | 0.590  | 6      | 18.0   | 0.010    | 0.270    | 5.600    | 1.070    | 0.005    | 7.68 |
| 870722               | 0905 | 38584    | 1.530  | 6      | 24.0   | 0.130    | 0.090    | 2.400    | 1.320    | 0.003<   | 7.98 |
| 870818               | 0905 | 38611    | 1.160  | 6      | 20.5   | 0.190    | 0.110    | 2.200    | 1.500    | 0.006    | 7.72 |
| 870923               | 1355 | 38638    | 1.040  | 6      | 15.0   | 0.235    | 0.050    | 2.900    | 1.600    | 0.005    | 7.80 |
| 871021               | 0905 | 38665    | 1.070  | 6      | 8.0    | 0.315    | 0.030    | 2.700    | 1.120    | 0.003<   | 7.80 |
| 871118               | 1245 | 38692    | 1.830  | 6      | 7.0    | 0.078    | 0.030    | 4.500    | 1.240    | 0.004    | 8.13 |
| 871216               | 0905 | 38719    | 6.270  | 6      | 1.0    | 0.235    | 0.190    | 9.300    | 1.420    | 0.003    | 7.97 |

( C O N T D )



B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT DUNDAS STREET WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 07 36.34 LONG: 080 46 45.59 U T M: 17 0517950.0 4774700.0 4 REGION: 01 DISTANCE: 258.132

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 296  | 6.270                                |                           | 24.0                             | 0.315  | 0.270                                       | 9.300                                       | 1.600   | 0.006                                     | 8.13 |
| ARITH MEAN           |  | 156  | 1.700                                |                           | 10.5                             | 0.149  | 0.097                                       | 5.408                                       | 1.096   | 0.005                                     | 7.89 |
| GEOM MEAN            |  |  | 1.314                                |                           | 5.8                              | 0.103  | 0.069                                       | 4.836                                       | 1.037   |   | 7.89 |
| MINIMUM              |  | 16   | 0.486                                |                           | 0.5                              | 0.010  | 0.020                                       | 2.200                                       | 0.520   | 0.003                                     | 7.66 |
| STD DEV (GEOM *)     |  |  | 1.569                                |                           | 8.3                              | 0.095  | 0.082                                       | 2.456                                       | 0.351   |   | 0.15 |
| # SAMP IN STATISTICS |  | 11   | 12                                   |                           | 12                               | 12   | 12  | 12  | 12  | 5   | 12   |
| % SAMP (EXCLUDED)    |  | 8  |                                      |                           |                                  |  |   |   |   | 58  |      |

| *=INTERIM TEST-NAME: |      | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|--|---|--|--|-----------------------------------|-------------------------|---|
| 870121               | 1245 | 38422  | 0.081                                     | 0.127  | 8  | 5.0<                              | 4.40                    | 0.010                                     |
| 870212               | 0905 | 38449  | 0.065                                     | 0.104  | 4  | 5.0<                              | 4.00                    | 0.012                                     |
| 870317               | 0905 | 38476  | 0.096                                     | 0.138  | 4<   | 6.6                               | 5.20                    | 0.047                                     |
| 870421               | 0905 | 38503  | 0.016                                     | 0.103  | 4<   | 17.0                              | 7.10                    | 0.055                                     |
| 870520               | 0905 | 38530  | 0.082                                     | 0.174  | 4<   | 9.9                               | 7.60                    | 0.051                                     |
| 870617               | 0905 | 38557  | 0.068                                     | 0.170  | 32   | 17.4                              | 13.20                   | 0.045                                     |
| 870722               | 0905 | 38584  | 0.023                                     | 0.140  | 8  | 24.9                              | 8.10                    | 0.062                                     |
| 870818               | 0905 | 38611  | 0.121                                     | 0.284  | 32   | 31.2                              | 17.20                   | 0.022                                     |
| 870923               | 1355 | 38638  | 1.000<                                    | 0.236  | 40   | 22.7                              | 16.30                   | 0.020                                     |
| 871021               | 0905 | 38665  | 0.047                                     | 0.177  | 4  | 18.7                              | 12.60                   | 0.015                                     |
| 871118               | 1245 | 38692  | 0.007                                     | 0.148  | 8  | 15.4                              | 11.20                   | 0.010                                     |
| 871216               | 0905 | 38719  | 0.120                                     | 0.164  | 144  | 26.8                              | 25.00                   | 0.015                                     |
| MAXIMUM              |      |  | 0.122                                     | 0.284  | 144  | 31.2                              | 25.00                   | 0.062                                     |
| ARITH MEAN           |      |  | 0.071                                     | 0.164  | 31   | 19.1                              | 10.99                   | 0.030                                     |
| GEOM MEAN            |      |  | 0.054                                     | 0.157  |  |                                   | 9.47                    | 0.024                                     |
| MINIMUM              |      |  | 0.007                                     | 0.103  | 4  | 6.6                               | 4.00                    | 0.010                                     |
| STD DEV (GEOM *)     |      |  | 0.041                                     | 0.052  |  |                                   | 6.26                    | 0.020                                     |
| # SAMP IN STATISTICS |      |  | 12  | 12   | 9  | 10                                | 12                      | 12  |
| % SAMP (EXCLUDED)    |      |  |   |  | 25   | 16                                |                         |   |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF INNERKIP  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD021

STATION ID: 04-0013-018-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 11.14 LONG: 080 41 24.44

U T M: 17 0525175.0 4783200.0 4

REGION: 01

DISTANCE: 272.133

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |        |          | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   |        |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     | STREAM |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     | COND.  |
|                      |      | M      |          |          |          |          |          | /100ML   | /100ML   |        |        |
| 870121               | 1220 | 38420  | 0101     |          |          | 31.500   | 740.0    | 10AID    | 8        | 0.860  | 6      |
| 870212               | 0830 | 38447  | 0101     |          |          | 59.000   | 970.0    | 20       | 40       | 0.480  | 6      |
| 870317               | 0830 | 38474  | 0101     |          |          | 21.500   | 605.0    | 444      | 360      | 3.220  | 6      |
| 870421               | 0830 | 38501  | 0101     |          |          | 47.500   | 755.0    | 60       | 124      | 1.100  | 6      |
| 870520               | 0830 | 38528  | 0101     |          |          | 35.000   | 755.0    | 236      | 268      | 0.314  |        |
| 870617               | 0830 | 38555  | 0101     |          |          | 32.500   | 840.0    | 650      | 390      | 0.126  | 6      |
| 870722               | 0830 | 38582  | 0101     |          |          | 37.500   | 775.0    | 330      | 240      | 0.101  | 9      |
| 870818               | 0830 | 38609  | 0101     |          |          | 39.500   | 820.0    | 600AID   | 528      | 0.089  | 9      |
| 870923               | 1305 | 38636  | 0101     | 186.0    | 45.450   |          | 815.0    | 270      | 210      | 0.282  | 6      |
| 871021               | 0830 | 38663  | 0101     |          | 40.160   |          | 890.0    | 264      | 44       | 0.157  | 9      |
| 871118               | 1220 | 38690  | 0101     |          | 41.450   |          | 825.0    | 192      | 16       | 0.331  | 6      |
| 871216               | 0830 | 38717  | 0101     |          | 35.180   |          | 660.0    | 1500>    | 1500>    | 6.580  | 6      |
| MAXIMUM              |      | 0.30   |          | 186.0    | 45.450   | 59.000   | 970.0    | 650      | 528      | 6.580  |        |
| ARITH MEAN           |      | 0.30   |          | 186.0    | 40.560   | 38.000   | 787.5    | 280      | 203      | 1.137  |        |
| GEOM MEAN            |      |        |          |          | 40.391   | 36.569   | 781.9    |          |          | 0.438  |        |
| MINIMUM              |      | 0.30   |          | 186.0    | 35.180   | 21.500   | 605.0    | 10       | 8        | 0.089  |        |
| STD DEV (GEOM *)     |      |        |          |          | 4.235    | 11.260   | 97.2     |          |          | 1.923  |        |
| # SAMP IN STATISTICS |      | 12     |          | 1        | 4        | 8        | 12       | 11       | 11       | 12     |        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          | 8        | 8        |        |        |

| *=INTERIM TEST-NAME: |      | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     |      |
|----------------------|------|--------|----------|----------|----------|----------|-------|----------|----------|----------|---------|------|
|                      |      |        | NH3-N    |          |          | K'DAHL N |       |          |          | PSEUDOMN |         |      |
|                      |      |        | TOTAL    | N02-N    | N03-N    | TOTAL    |       | P04      | PHOSPHOR | AERUG.   |         |      |
| SAMPLE               |      | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | MF       | RESIDUE |      |
| DATE                 | HOUR | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | CNT      | PARTIC. |      |
| YYMMDD               | LMT  | DEG.C  | AS N     | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   | MG/L    |      |
| 870121               | 1220 | 38420  | 1.0      | 0.025    | 0.020    | 7.200    | 0.460 | 8.12     | 0.032    | 0.055    | 4<      | 5.0< |
| 870212               | 0830 | 38447  | 0.5      | 0.335    | 0.030    | 5.700    | 0.830 | 7.84     | 0.033    | 0.059    | 4<      | 5.0< |
| 870317               | 0830 | 38474  | 1.0      | 0.235    | 0.040    | 6.700    | 0.970 | 8.01     | 0.092    | 0.146    | 4<      | 13.6 |
| 870421               | 0830 | 38501  | 15.5     | 0.035    | 0.100    | 4.400    | 1.000 | 7.89     | 0.006    | 0.076    | 4<      | 5.0< |
| 870520               | 0830 | 38528  |          | 0.035    | 0.050    | 2.200    | 0.720 | 7.79     | 0.006    | 0.029    | 4<      | 5.0< |
| 870617               | 0830 | 38555  | 18.0     | 0.055    | 0.040    | 2.000    | 0.800 | 7.81     | 0.026    | 0.063    | 4<      | 5.9  |
| 870722               | 0830 | 38582  | 23.0     | 0.025    | 0.020    | 0.800    | 0.920 | 7.91     | 0.003    | 0.070    | 4       | 7.3  |
| 870818               | 0830 | 38609  | 19.5     | 0.030    | 0.030    | 1.500    | 0.880 | 7.81     | 0.031    | 0.078    | 8       | 6.0  |
| 870923               | 1305 | 38636  | 13.0     | 0.005    | 0.010    | 2.200    | 0.600 | 7.99     | 0.015    | 0.036    | 4<      | 5.0< |
| 871021               | 0830 | 38663  | 7.0      | 0.010    | 0.010<   | 1.700    | 0.480 | 7.92     | 0.009    | 0.018    | 4<      | 5.0< |
| 871118               | 1220 | 38690  | 7.0      | 0.005<   | 0.010    | 4.200    | 0.520 | 7.99     | 0.005    | 0.044    | 4<      | 5.0< |
| 871216               | 0830 | 38717  | 1.5      | 0.202    | 0.080    | 10.700   | 0.970 | 7.69     | 0.141    | 0.159    | 72C     | 15.4 |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF INNERKIP  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD021

STATION ID: 04-0013-018-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 11.14 LONG: 080 41 24.44

U T M: 17 0525175.0 4783200.0 4

REGION: 01

DISTANCE: 272.133

| *=INTERIM TEST-NAME:     |             | FWTEMP               | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |      |
|--------------------------|-------------|----------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|--|-----------------------------------|------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |      |
|                          |             | MAXIMUM              | 23.0                     | 0.335                    | 0.100                    | 10.700                      | 1.000                    | 8.12                      | 0.141                        | 0.159                                    | 72                                | 15.4 |
|                          |             | ARITH MEAN           | 9.7                      | 0.090                    | 0.039                    | 4.108                       | 0.762                    | 7.90                      | 0.033                        | 0.069                                    | 28                                | 9.6  |
|                          |             | GEOM MEAN            | 5.1                      |                          |                          | 3.181                       | 0.736                    | 7.90                      | 0.017                        | 0.059                                    |                                   |      |
|                          |             | MINIMUM              | 0.5                      | 0.005                    | 0.010                    | 0.800                       | 0.460                    | 7.69                      | 0.003                        | 0.018                                    | 4                                 | 5.9  |
|                          |             | STD DEV (GEOM *)     | 8.4                      |                          |                          | 2.979                       | 0.201                    | 0.12                      | 0.042                        | 0.043                                    |                                   |      |
|                          |             | # SAMP IN STATISTICS | 11                       | 11                       | 11                       | 12                          | 12                       | 12                        | 12                           | 12                                       | 3                                 | 5    |
|                          |             | % SAMP (EXCLUDED)    |                          | 8                        | 8                        |                             |                          |                           |                              |  | 75                                | 58   |

\*=INTERIM TEST-NAME: TURB

| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | TURB'ITY<br>FTU |
|--------------------------|-------------|----------------------|-----------------|
| 870121                   | 1220        | 38420                | 3.10            |
| 870212                   | 0830        | 38447                | 2.30            |
| 870317                   | 0830        | 38474                | 8.40            |
| 870421                   | 0830        | 38501                | 2.80            |
| 870520                   | 0830        | 38528                | 3.30            |
| 870617                   | 0830        | 38555                | 4.30            |
| 870722                   | 0830        | 38582                | 2.20            |
| 870818                   | 0830        | 38609                | 5.30            |
| 870923                   | 1305        | 38636                | 4.10            |
| 871021                   | 0830        | 38663                | 3.50            |
| 871118                   | 1220        | 38690                | 1.07            |
| 871216                   | 0830        | 38717                | 14.10           |
|                          |             | MAXIMUM              | 14.10           |
|                          |             | ARITH MEAN           | 4.54            |
|                          |             | GEOM MEAN            | 3.67            |
|                          |             | MINIMUM              | 1.07            |
|                          |             | STD DEV (GEOM *)     | 3.53            |
|                          |             | # SAMP IN STATISTICS | 12              |
|                          |             | % SAMP (EXCLUDED)    |                 |

## 44

STORET CODE: 02  
003  
2870

**DISTANCE: 278.570**

| *INTERIM       |      | TEST-NAME:    | FCMF<br>FECAL<br>COLIFORM | FSMF<br>FECAL<br>STREPCUS | FWFLOW<br>STREAM<br>FLOW | FWSTRC          | FWTEMP<br>WATER<br>TEMP | NIUT<br>NICKEL<br>UNF. TOT. | NNHTUR<br>NH3-N<br>TOTAL<br>UNF. REAC | NNO2UR<br>NO2-N<br>UNF. REAC | NNO3UR<br>NO3-N<br>UNF. REAC | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF. REAC |
|----------------|------|---------------|---------------------------|---------------------------|--------------------------|-----------------|-------------------------|-----------------------------|---------------------------------------|------------------------------|------------------------------|--|
| SAMPLE<br>DATE | HOUR | SAMPLE<br>CNT | MF<br>CNT                 | MF<br>CNT                 | M3<br>/S                 | STREAM<br>COND. | TEMP<br>DEG.C           | MG/L<br>AS NI               | MG/L<br>AS N                          | MG/L<br>AS N                 | MG/L<br>AS N                 | MG/L<br>AS N                             |
| YYMMDD         | LMT  | NUMBER        | /100ML                    | /100ML                    |                          |                 |                         |                             |                                       |                              |                              |  |
| 870120         | 1010 | 38405         | 600>                      | 60                        | 1.220                    | 6               | 1.0                     | 0.015<                      | 0.590                                 | 0.090                        | 4.100                        | 0.840                                    |
| 870211         | 0930 | 38432         | 1500>                     | 600>                      | 0.580                    | 6               | 1.0                     | 0.015<                      | 1.200                                 | 0.130                        | 3.300                        |  |
| 870316         | 0930 | 38459         | 230                       | 80                        | 2.620                    | 6               | 2.0                     | 0.015<                      | 0.655                                 | 0.040                        | 3.600                        | 1.560                                    |
| 870420         | 0930 | 38486         |                           |                           | 1.210                    | 6               | 11.0                    | 0.015<                      | 0.325                                 | 0.210                        | 3.600                        | 1.360                                    |
| 870519         | 0930 | 38513         | 124                       | 120                       | 0.964                    | 9               | 14.0                    | 0.003                       | 0.965                                 | 0.410                        | 0.410                        | 2.440                                    |
| 870616         | 0930 | 38540         | 244                       | 216                       | 0.468                    | 9               | 19.5                    | 0.015<                      | 1.700                                 | 0.650                        | 2.400                        | 2.750                                    |
| 870721         | 0930 | 38567         | 1500>                     | 1020                      | 0.567                    | 6               | 22.5                    | 0.009                       | 0.695                                 | 0.650                        | 0.100<                       | 2.550                                    |
| 870817         | 0930 | 38594         | 290                       | 180                       | 0.252                    | 9               | 22.0                    | 0.007                       | 1.500                                 | 0.480                        | 1.100                        | 3.200                                    |
| 870921         | 1110 | 38621         | 1500>                     | 1500>                     | 0.706                    | 6               | 14.5                    | 0.007                       | 1.300                                 | 0.250                        | 1.700                        | 2.320                                    |
| 871020         | 0930 | 38648         | 110                       | 20AID                     | 0.432                    | 6               | 9.5                     | 0.013                       | 0.010                                 | 0.310                        | 2.400                        | 3.700                                    |
| 871116         | 1010 | 38675         | 1100                      | 160                       | 0.964                    | 6               | 1.0                     | 0.005                       | 0.001<                                | 0.300                        | 4.300                        | 2.200                                    |
| 871214         | 0930 | 38702         | 13300                     | 1200                      | 3.060                    | 6               | 3.5                     | 0.003                       | 0.294                                 | 0.300                        | 7.900                        | 1.400                                    |

( C O N T D )

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: AT LORNE AVE STRATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD018

STATION ID: 04-0013-025-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 21 53.73 LONG: 081 01 04.42

U T M: 17 0498550.0 4801125.0 4

REGION: 01

DISTANCE: 278.570

| *=-INTERIM TEST-NAME: |  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |
|-----------------------|--|--|--|--------------------------------------|---------------------------|----------------------------------|---|--|---|---|---|
| MAXIMUM               |  | 13300  | 1200   | 3.060                                |                           | 22.5                             | 0.013                                       | 1.700  | 0.650                                       | 7.900                                       | 3.700   |
| ARITH MEAN            |  | 2200   | 340  | 1.087                                |                           | 10.1                             | 0.007                                       | 0.839  | 0.318                                       | 3.165                                       | 2.211   |
| GEOM MEAN             |  |  |  | 0.844                                |                           | 5.8                              |   |  | 0.249                                       |   | 2.042   |
| MINIMUM               |  | 110  | 20   | 0.252                                |                           | 1.0                              | 0.003                                       | 0.010  | 0.040                                       | 0.410                                       | 0.840   |
| STD DEV (GEOM *)      |  |  |  | 0.878                                |                           | 8.4                              |   |  | 0.199                                       |   | 0.857   |
| # SAMP IN STATISTICS  |  | 7  | 9  | 12                                   |                           | 12                               | 7   | 11   | 12  | 11  | 11  |
| % SAMP (EXCLUDED)     |  | 36   | 18   |                                      |                           |                                  | 41  | 8  |   | 8   |   |

| *=-INTERIM TEST-NAME: |      | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH<br>PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS SO4 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|-----------------------|------|---|----------|---|--|--|-----------------------------------|--|-------------------------|---|-------|
| 870120                | 1010 | 38405                                     | 0.030<   | 8.06                                      | 0.083  | 0.146  | 4<                                | 6.6  | 62.000                  | 6.90                                      | 0.021 |
| 870211                | 0930 | 38432                                     | 0.030<   | 7.91                                      | 0.049  | 0.098  | 36                                | 7.9  | 85.000                  | 6.90                                      | 0.027 |
| 870316                | 0930 | 38459                                     | 0.030<   | 7.92                                      | 0.020  | 0.076  | 4<                                | 7.9  | 48.500                  | 6.90                                      | 0.057 |
| 870420                | 0930 | 38486                                     | 0.030<   | 8.06                                      | 0.150  | 0.220  |                                   | 9.1  | 70.500                  | 4.30                                      | 0.051 |
| 870519                | 0930 | 38513                                     | 0.003    | 7.84                                      | 0.091  | 0.222  | 8                                 | 17.3   | 75.000                  | 11.80                                     | 0.058 |
| 870616                | 0930 | 38540                                     | 0.030<   | 7.84                                      | 0.060  | 0.122  | 4<                                | 4.4  | 130.000                 | 3.10                                      | 0.050 |
| 870721                | 0930 | 38567                                     | 0.007    | 7.51                                      | 0.021  | 0.135  | 184                               | 10.8   | 100.000                 | 8.20                                      | 0.062 |
| 870817                | 0930 | 38594                                     | 0.009    | 7.65                                      | 0.001<                                       | 0.117  | 24                                | 11.7   | 130.000                 | 6.00                                      | 0.013 |
| 870921                | 1110 | 38621                                     | 0.011    | 7.59                                      | 0.055  | 0.146  | 116                               | 28.1   | 92.500                  | 38.00                                     | 0.030 |
| 871020                | 0930 | 38648                                     | 0.006    | 7.60                                      | 0.053  | 0.106  | 4<                                | 7.0  | 14.000                  | 5.10                                      | 0.020 |
| 871116                | 1010 | 38675                                     | 0.003    | 7.98                                      | 0.171  | 0.285  | 8                                 | 13.5   | 148.000                 | 8.30                                      | 0.024 |
| 871214                | 0930 | 38702                                     | 0.003<   | 7.99                                      | 0.084  | 0.114  | 64                                | 14.2   | 69.500                  | 11.20                                     | 0.009 |
| MAXIMUM               |      | 0.011                                     | 8.06     | 0.171                                     | 0.285  | 184  | 28.1                              | 148.000  | 38.00                   | 0.062                                     |       |
| ARITH MEAN            |      | 0.006                                     | 7.83     | 0.076                                     | 0.149  | 63   | 11.5                              | 85.417   | 9.72                    | 0.035                                     |       |
| GEOM MEAN             |      |   | 7.83     |   | 0.139  |  | 10.3                              | 74.748   | 7.73                    | 0.030                                     |       |
| MINIMUM               |      | 0.003                                     | 7.51     | 0.020                                     | 0.076  | 8  | 4.4                               | 14.000   | 3.10                    | 0.009                                     |       |
| STD DEV (GEOM *)      |      |   | 0.19     |   | 0.062  |  | 6.4                               | 37.840   | 9.26                    | 0.019                                     |       |
| # SAMP IN STATISTICS  |      | 6   | 12       | 11  | 12   | 7  | 12                                | 12   | 12                      | 12  |       |
| % SAMP (EXCLUDED)     |      | 50  |          | 8   |  | 36   |                                   |  |                         |   |       |

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: 1 MILE SOUTHWEST OF TILBURY STATION  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-026-02

STORET CODE: 02  
 003  
 2870

LAT: 42 16 34.52 LONG: 082 26 51.52 U T M: 17 0380625.0 4681250.0 4 REGION: 01 DISTANCE: 7.725

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     | FSMF     |        |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
|                      |      |        |          | BOD      |          |          |          |          |          | FECAL    | FECAL    |        |
|                      |      |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM | STREPCUS |        |
|                      |      |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       | MF       |        |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      | CNT      |        |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | AS 0     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   | /100ML   |        |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          |          |          |          |          |          |        |
| 870126               | 1038 | 39401  | 0.30     | 0101     | 8.30     |          | 45.000   | 635.0    | 0.009    | 17.0     | 1500>    | 60AID  |
| 870223               | 0946 | 39414  | 0.30     | 0101     | 2.88     |          | 51.500   | 770.0    | 0.002    | 6.5      | 400      | 32     |
| 870323               | 1030 | 39428  | 0.30     | 0101     | 5.54     |          | 63.000   | 845.0    | 0.007    | 13.0     | 160      | 10<    |
| 870427               | 1025 | 39444  | 0.30     | 0101     | 7.56     |          | 42.500   | 730.0    | 0.007    | 15.0     | 30AID    | 10<    |
| 870525               | 1040 | 39460  | 0.30     | 0101     | 12.40    |          | 63.000   | 695.0    | 0.008    |          | 8        | 8      |
| 870622               | 1030 | 39476  | 0.30     | 0101     | 9.44     |          | 55.500   | 675.0    | 0.004    | 3.0      | 100      | 80AID  |
| 870727               | 1044 | 39489  | 0.30     | 0101     | 14.20    |          | 42.000   | 483.0    | 0.009    | 8.5      | 76       | 450    |
| 870824               | 1037 | 39502  | 0.30     | 0101     | 2.28     |          | 50.500   | 447.0    | 0.008    | 4.5      | 530      | 390    |
| 870928               | 1100 | 39516  | 0.30     | 0101     | 4.46     | 28.580   |          | 610.0    | 0.009    | 8.0      | 100AID   | 50AID  |
| 871026               | 0950 | 39530  | 0.30     | 0101     |          | 43.950   |          | 660.0    | 0.010    | 13.0     | 500AID   | 600AID |
| 871124               | 0936 | 39546  | 0.30     | 0101     | 2.56     | 53.830   |          | 820.0    | 0.003    | 14.0     | 40AID    | 40AID  |

|                      |      |  |       |        |        |       |       |      |     |     |
|----------------------|------|--|-------|--------|--------|-------|-------|------|-----|-----|
| MAXIMUM              | 0.30 |  | 14.20 | 53.830 | 63.000 | 845.0 | 0.010 | 17.0 | 530 | 600 |
| ARITH MEAN           | 0.30 |  | 6.96  | 42.120 | 51.625 | 670.0 | 0.007 | 10.2 | 194 | 190 |
| GEOM MEAN            |      |  | 5.80  | 40.739 | 51.035 | 658.4 | 0.006 | 9.0  |     |     |
| MINIMUM              | 0.30 |  | 2.28  | 28.580 | 42.000 | 447.0 | 0.002 | 3.0  | 8   | 8   |
| STD DEV (GEOM *)     |      |  | 4.17  | 12.724 | 8.408  | 125.3 | 0.003 | 4.8  |     |     |
| # SAMP IN STATISTICS | 11   |  | 10    | 3      | 8      | 11    | 11    | 10   | 10  | 9   |
| % SAMP (EXCLUDED)    |      |  |       |        |        |       |       |      | 9   | 18  |

| *=INTERIM TEST-NAME: |      | FWSTRC | FWTEMP | NNHTUR | NN02UR   | NN03UR   | NNTKUR   | PBUT  | PH     | PP04UR   | PPUT     |       |
|----------------------|------|--------|--------|--------|----------|----------|----------|-------|--------|----------|----------|-------|
|                      |      |        |        | NH3-N  | N02-N    | N03-N    | K'DAHL N |       |        | P04      | PHOSPHOR |       |
|                      |      |        |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC | LEAD  |        | UNF.REAC | UNF.TOT. |       |
|                      |      |        |        | MG/L   | MG/L     | MG/L     | MG/L     | MG/L  |        | MG/L     | MG/L     |       |
| SAMPLE               |      | STREAM | WATER  | AS N   | AS N     | AS N     | AS N     | AS PB | PH     | AS P     | AS P     |       |
| DATE                 | HOUR | COND.  | TEMP   |        |          |          |          |       |        |          |          |       |
| YYMMDD               | LMT  | NUMBER | DEG.C  |        |          |          |          |       |        |          |          |       |
| 870126               | 1038 | 39401  | 4      | 0.5    | 0.300    | 0.050    | 3.500    | 3.400 | 0.003< | 7.47     | 0.160    | 0.390 |
| 870223               | 0946 | 39414  | 4      | 0.5    | 1.100    | 0.070    | 1.500    | 2.160 | 0.003< | 7.54     | 0.480    | 0.520 |
| 870323               | 1030 | 39428  | 6      | 5.0    | 0.545    | 0.080    | 1.800    | 1.950 | 0.003< | 8.25     | 0.313    | 0.430 |
| 870427               | 1025 | 39444  | 6      | 10.0   | 0.245    | 0.260    | 2.500    | 2.300 | 0.003< | 8.26     | 0.116    | 0.340 |
| 870525               | 1040 | 39460  | 6      | 19.0   | 0.250    | 0.140    | 0.400    | 4.200 | 0.003< | 7.75     | 0.019    | 0.600 |
| 870622               | 1030 | 39476  | 9 0    | 24.0   | 1.500    | 0.090    | 0.100<   | 4.350 | 0.003< | 7.47     | 0.351    | 0.535 |
| 870727               | 1044 | 39489  | 6      | 27.0   | 0.455    | 0.140    | 1.300    | 3.200 | 0.003< | 7.90     | 0.036    | 0.375 |
| 870824               | 1037 | 39502  | 6      | 22.0   | 0.375    | 0.120    | 0.700    | 1.650 | 0.003< | 7.65     | 0.310    | 0.330 |
| 870928               | 1100 | 39516  | 6      | 18.0   | 0.200    | 0.080    | 2.400    | 1.880 | 0.003< | 7.61     | 0.085    | 0.218 |
| 871026               | 0950 | 39530  | 6      | 8.0    | 0.012    | 0.010    | 0.700    | 1.700 | 0.003< | 7.81     | 0.032    | 0.370 |
| 871124               | 0936 | 39546  | 6      | 4.0    | 0.353    | 0.110    | 1.300    | 1.550 | 0.003< | 7.88     | 0.197    | 0.520 |

( C O N T D )

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: 1 MILE SOUTHWEST OF TILBURY STATION  
 STATION TYPE: RIVER

STATION ID: 04-0013-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 16 34.52 LONG: 082 26 51.52 U T M: 17 0380625.0 4681250.0 4 REGION: 01 DISTANCE: 7.725

| *=INTERIM TEST-NAME:     |             | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT. | PH    | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. |       |
|--------------------------|-------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|-------|---------------------------|------------------------------|-------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | AS PB | PH                        | AS P                         |       |
| MAXIMUM                  |             |                  |                 | 27.0                     | 1.500                       | 0.260                       | 3.500                       | 4.350                    |       | 8.26                      | 0.480                        | 0.600 |
| ARITH MEAN               |             |                  |                 | 12.5                     | 0.485                       | 0.105                       | 1.610                       | 2.576                    |       | 7.78                      | 0.191                        | 0.421 |
| GEOM MEAN                |             |                  |                 | 7.0                      | 0.308                       | 0.083                       |                             | 2.407                    |       | 7.78                      | 0.124                        | 0.406 |
| MINIMUM                  |             |                  |                 | 0.5                      | 0.012                       | 0.010                       | 0.400                       | 1.550                    |       | 7.47                      | 0.019                        | 0.218 |
| STD DEV (GEOM *)         |             |                  |                 | 9.7                      | 0.435                       | 0.064                       |                             | 1.032                    |       | 0.28                      | 0.153                        | 0.112 |
| # SAMP IN STATISTICS     |             |                  |                 | 11                       | 11                          | 11                          | 10                          | 11                       |       | 11                        | 11                           | 11    |
| % SAMP (EXCLUDED)        |             |                  |                 |                          |                             |                             | 9                           |                          |       |                           |                              |       |

| *=INTERIM TEST-NAME:     |             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT. |       |
|--------------------------|-------------|-----------------------------------|---------------------------|-------------------------|--------------------------|-------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                  | CNT<br>/100ML             | MG/L                    | MG/L<br>AS ZN            |       |
| 870126                   | 1038        | 39401                             | 8                         | 39.2                    | 78.00                    | 0.053 |
| 870223                   | 0946        | 39414                             | 8                         | 12.3                    | 20.00                    | 0.033 |
| 870323                   | 1030        | 39428                             | 4<                        | 37.5                    | 50.00                    | 0.027 |
| 870427                   | 1025        | 39444                             | 4<                        | 64.9                    | 80.00                    | 0.018 |
| 870525                   | 1040        | 39460                             | 4<                        | 149.5                   | 139.00                   | 0.033 |
| 870622                   | 1030        | 39476                             | 116                       | 36.3                    | 81.00                    | 0.017 |
| 870727                   | 1044        | 39489                             | 4                         | 77.3                    | 79.00                    | 0.025 |
| 870824                   | 1037        | 39502                             | 288                       | 78.1                    | 101.00                   | 0.028 |
| 870928                   | 1100        | 39516                             | 4<                        | 71.1                    | 74.00                    | 0.017 |
| 871026                   | 0950        | 39530                             | 12                        | 59.6                    | 54.00                    | 0.031 |
| 871124                   | 0936        | 39546                             | 4<                        | 17.1                    | 22.00                    | 0.100 |
| MAXIMUM                  |             | 288                               | 149.5                     | 139.00                  | 0.100                    |       |
| ARITH MEAN               |             | 73                                | 58.4                      | 70.73                   | 0.035                    |       |
| GEOM MEAN                |             |                                   | 47.5                      | 61.69                   | 0.030                    |       |
| MINIMUM                  |             | 4                                 | 12.3                      | 20.00                   | 0.017                    |       |
| STD DEV (GEOM *)         |             |                                   | 37.9                      | 34.00                   | 0.024                    |       |
| # SAMP IN STATISTICS     |             | 6                                 | 11                        | 11                      | 11                       |       |
| % SAMP (EXCLUDED)        |             | 45                                |                           |                         |                          |       |

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 42 LONDON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE003

STATION ID: 04-0013-027-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 29.34 LONG: 081 11 41.61

U T M: 17 0484125.0 4765225.0 4

REGION: 01

DISTANCE: 217.416

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FVFLOW | FWSTRC | FWTEMP |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        |        |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   |        | WATER  |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     | STREAM | TEMP   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     | COND.  | DEG.C  |
| 870120               | 1220 | 38410  | 0101     |          | 27.000   | 650.0    | 52       | 20       | 9.940  | 6      | 0.5    |
| 870211               | 1335 | 38437  | 0101     |          | 30.000   | 690.0    | 12       | 4<       | 5.370  | 6      | 1.5    |
| 870316               | 1335 | 38464  | 0101     |          | 18.000   | 550.0    | 8        | 4<       | 19.600 | 6      | 1.5    |
| 870420               | 1335 | 38491  | 0101     |          | 20.000   | 510.0    | 8        | 4<       | 11.000 | 6      | 20.5   |
| 870519               | 1335 | 38518  | 0101     |          | 27.500   | 510.0    | 12       | 8        | 4.710  |        |        |
| 870616               | 1335 | 38545  | 0101     |          | 28.000   | 497.0    | 64       | 40       | 3.120  | 6      | 22.0   |
| 870721               | 1335 | 38572  | 0101     |          | 32.000   | 493.0    | 230      | 1300     | 2.520  | 6      | 25.0   |
| 870817               | 1335 | 38599  | 0101     |          | 33.500   | 434.0    | 250      | 90AID    | 2.860  | 6      | 24.0   |
| 870921               | 1355 | 38626  | 0101     | 36.670   |          | 427.0    | 120      | 20AID    | 1.880  | 6      | 18.5   |
| 871020               | 1335 | 38653  | 0101     | 37.020   |          | 468.0    | 30AID    | 50AID    | 2.440  | 6      | 11.0   |
| 871116               | 1220 | 38680  | 0101     | 35.540   |          | 610.0    | 20AID    | 10AID    | 7.410  | 6      | 7.0    |
| 871214               | 1335 | 38707  | 0101     | 29.300   |          | 625.0    | 230      | 260      | 24.700 | 6      | 3.0    |

|                      |      |  |        |        |       |     |      |        |  |      |
|----------------------|------|--|--------|--------|-------|-----|------|--------|--|------|
| MAXIMUM              | 0.30 |  | 37.020 | 33.500 | 690.0 | 250 | 1300 | 24.700 |  | 25.0 |
| ARITH MEAN           | 0.30 |  | 34.632 | 27.000 | 538.7 | 86  | 200  | 7.962  |  | 12.2 |
| GEOM MEAN            |      |  | 34.481 | 26.466 | 532.5 | 42  |      | 5.634  |  | 6.7  |
| MINIMUM              | 0.30 |  | 29.300 | 18.000 | 427.0 | 8   | 8    | 1.880  |  | 0.5  |
| STD DEV (GEOM *)     |      |  | 3.611  | 5.445  | 86.3  | 4*  |      | 7.342  |  | 9.9  |
| # SAMP IN STATISTICS | 12   |  | 4      | 8      | 12    | 12  | 9    | 12     |  | 11   |
| % SAMP (EXCLUDED)    |      |  |        |        |       |     | 25   |        |  |      |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     |      | AS P     | AS P     | /100ML   | MG/L    |
| 870120               | 1220 | 0.080    | 0.010    | 5.000    | 0.570    | 8.33 | 0.010    | 0.040    | 4<       | 5.0<    |
| 870211               | 1335 | 0.150    | 0.040    | 4.800    | 0.680    | 8.01 | 0.015    | 0.031    | 4<       | 3.4     |
| 870316               | 1335 | 0.125    | 0.020    | 6.200    | 0.790    | 8.16 | 0.065    | 0.104    | 4<       | 3.2     |
| 870420               | 1335 | 0.040    | 0.050    | 4.800    | 0.720    | 8.28 | 0.019    | 0.044    | 4<       | 5.0<    |
| 870519               | 1335 | 0.070    | 0.060    | 0.060    | 0.940    | 8.48 | 0.003    | 0.067    | 4<       | 9.1     |
| 870616               | 1335 | 0.020    | 0.340    | 3.800    | 1.110    | 8.07 | 0.034    | 0.135    | 4<       | 5.0<    |
| 870721               | 1335 | 0.475    | 0.240    | 0.100<   | 1.660    | 7.90 | 0.045    | 0.117    | 4<       | 12.9    |
| 870817               | 1335 | 0.655    | 0.150    | 0.500    | 1.660    | 7.91 | 0.041    | 0.164    | 4<       | 27.9    |
| 870921               | 1355 | 0.235    | 0.060    | 0.400    | 1.150    | 7.95 | 0.041    | 0.100    | 4<       | 12.6    |
| 871020               | 1335 | 0.395    | 0.020    | 0.700    | 1.200    | 8.01 | 0.011    | 0.065    | 4<       | 12.8    |
| 871116               | 1220 | 0.045    | 0.030    | 6.000    | 1.100    | 8.39 | 0.004    | 0.048    | 4<       | 12.4    |
| 871214               | 1335 | 0.072    | 0.030    | 11.200   | 0.810    | 8.19 | 0.016    | 0.086    | 4        | 13.8    |

( C O N T D )



## 49

STATION ID: 04-0013-027-02

STORET CODE: 02  
003  
2870

LAT: 43 02 29.34 LONG: 081 11 41.61 U T M: 17 0484125.0 4765225.0 4 REGION: 01 DISTANCE: 217.416

| *INTERIM                 |                    | TEST-NAME:       | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP                        |
|--------------------------|--------------------|------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|------|---------------------------|------------------------------|--|----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT        | SAMPLE<br>NUMBER | MG/L<br>AS N             | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS N                | PH   | MG/L<br>AS P              | MG/L<br>AS P                 |  | RESIDUE<br>PARTIC.<br>MG/L |
|                          |                    | MAXIMUM          | 0.655                    | 0.340                       | 11.200                      | 1.660                       | 8.48 | 0.065                     | 0.164                        | 4  | 27.9                       |
|                          |                    | ARITH MEAN       | 0.197                    | 0.087                       | 3.951                       | 1.032                       | 8.14 | 0.025                     | 0.083                        | 4  | 12.0                       |
|                          |                    | GEOM MEAN        | 0.119                    | 0.051                       |                             | 0.979                       | 8.14 | 0.018                     | 0.074                        |  |                            |
|                          |                    | MINIMUM          | 0.020                    | 0.010                       | 0.060                       | 0.570                       | 7.90 | 0.003                     | 0.031                        | 4  | 3.2                        |
|                          |                    | STD DEV (GEOM *) | 0.204                    | 0.103                       |                             | 0.356                       | 0.20 | 0.019                     | 0.042                        |  |                            |
| #                        | SAMP IN STATISTICS | 12               | 12                       | 11                          | 12                          | 12                          | 12   | 12                        | 12                           | 1  | 9                          |
| %                        | SAMP (EXCLUDED)    |                  |                          | 8                           |                             |                             |      |                           |                              | 91   | 25                         |

## 1987 WATER QUALITY DATA REGION 1

50

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: 1ST.CONC.DOWNSTREAM OF LAMBERT  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE005

STATION ID: 04-0013-029-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 50.48 LONG: 081 18 49.08

U T M: 17 0474400.0 4751100.0 4

REGION: 01

DISTANCE: 196.013

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |                      |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |                      |          | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE               | PROJECT  | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH                | SUB-PROJ | MG/L     | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CAC03 |          |          |          |          |          |          |          |
| 870121               | 0940 | 38413                | 0101     | 274.0    | 0.99     |          | 74.500   | 820.0    | 0.004    | 13.0     | 1500>    |
| 870212               | 1330 | 38440                | 0101     | 246.0    | 2.00     |          | 300.000  | 1500.0   | 0.002    |          | 1500>    |
| 870317               | 1330 | 38467                | 0101     | 240.0    | 1.05     |          | 56.000   | 695.0    | 0.002    |          | 380      |
| 870421               | 1330 | 38494                | 0101     | 237.0    | 1.91     |          | 59.500   | 705.0    | 0.005    | 15.0     | 600>     |
| 870520               | 1330 | 38521                | 0101     | 230.0    | 4.30     |          | 71.000   | 755.0    | 0.005    | 14.0     | 1500>    |
| 870617               | 1330 | 38548                | 0101     | 233.0    | 4.06     |          | 66.000   | 725.0    | 0.004    | 15.0     | 460      |
| 870722               | 1330 | 38575                | 0101     | 220.0    | 2.35     |          | 66.500   | 740.0    | 0.003    | 17.0     | 1000     |
| 870818               | 1330 | 38602                | 0101     | 219.0    | 2.52     |          | 92.000   | 795.0    | 0.005    | 14.0     | 1400     |
| 870923               | 0915 | 38629                | 0101     | 190.4    | 2.32     | 99.960   |          | 810.0    | 0.008    | 14.0     | 2800     |
| 871021               | 1330 | 38656                | 0101     | 205.5    | 3.52     | 66.510   |          | 750.0    | 0.005    | 4.0      | 3000     |
| 871118               | 0940 | 38683                | 0101     | 253.3    | 3.07     | 115.500  |          | 935.0    | 0.006    | 8.0      | 2600     |
| 871216               | 1330 | 38710                | 0101     | 139.3    | 2.54     | 87.020   |          | 680.0    | 0.005    | 10.0     | 2700     |
|                      |      | MAXIMUM              | 0.30     | 274.0    | 4.30     | 115.500  | 300.000  | 1500.0   | 0.008    | 17.0     | 3000     |
|                      |      | ARITH MEAN           | 0.30     | 224.0    | 2.55     | 92.247   | 98.187   | 825.8    | 0.004    | 12.4     | 1793     |
|                      |      | GEOM MEAN            |          | 221.1    | 2.33     | 90.413   | 82.447   | 805.8    | 0.004    | 11.6     |          |
|                      |      | MINIMUM              | 0.30     | 139.3    | 0.99     | 66.510   | 56.000   | 680.0    | 0.002    | 4.0      | 380      |
|                      |      | STD DEV (GEOM *)     |          | 34.5     | 1.05     | 20.736   | 82.274   | 223.4    | 0.002    | 3.9      |          |
|                      |      | # SAMP IN STATISTICS | 12       | 12       | 12       | 4        | 8        | 12       | 12       | 10       | 8        |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          |          |          | 33       |

| *=INTERIM TEST-NAME: |      | FMSF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|----------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                      |      | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                      |      | STREPCUS | STREAM |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |      |
|                      |      | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
| SAMPLE               |      | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
| DATE                 | HOUR | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| YYMMDD               | LMT  | NUMBER   |        |        |        |          |          |          |          |          |      |
| 870121               | 0940 | 38413    | 152    | 0.480  | 6      | 0.5      | 0.040    | 0.020    | 4.900    | 0.480    | 7.84 |
| 870212               | 1330 | 38440    | 224    | 0.318  | 6      | 2.0      | 0.160    | 0.030    | 2.500    | 0.940    | 7.93 |
| 870317               | 1330 | 38467    | 20AID  | 0.990  | 6      | 4.0      | 0.035    | 0.020    | 3.100    | 0.640    | 8.08 |
| 870421               | 1330 | 38494    | 108    | 0.744  | 6      | 19.0     | 0.120    | 0.050    | 2.200    | 1.450    | 7.91 |
| 870520               | 1330 | 38521    | 112    | 0.231  | 6      | 15.5     | 0.490    | 0.330    | 0.330    | 1.600    | 7.60 |
| 870617               | 1330 | 38548    | 190    | 0.093  | 6      | 22.0     | 0.010    | 0.060    | 2.300    | 1.400    | 7.63 |
| 870722               | 1330 | 38575    | 510    | 0.083  | 6      | 26.5     | 0.080    | 0.050    | 2.700    | 1.260    | 7.87 |
| 870818               | 1330 | 38602    | 240    | 0.168  | 6      | 22.0     | 0.100    | 0.050    | 2.400    | 1.050    | 7.67 |
| 870923               | 0915 | 38629    | 570    | 0.222  | 6      | 14.0     | 0.205    | 0.100    | 2.400    | 1.260    | 7.55 |
| 871021               | 1330 | 38656    | 190    | 0.125  | 6      | 8.0      | 0.365    | 0.070    | 2.800    | 1.200    | 7.59 |
| 871118               | 0940 | 38683    | 280    | 0.174  | 6      | 7.5      | 0.023    | 0.060    | 2.100    | 2.240    | 7.77 |
| 871216               | 1330 | 38710    | 1500>  | 6.510  | 6      | 2.0      | 0.042    | 0.030    | 9.100    | 1.400    | 7.55 |

( C O N T D )

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: 1ST.CONC.DOWNSTREAM OF LAMBERT  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE005

STATION ID: 04-0013-029-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 50.48 LONG: 081 18 49.08

U T M: 17 0474400.0 4751100.0 4

REGION: 01

DISTANCE: 196.013

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 570  | 6.510                                |                           | 26.5                             | 0.490  | 0.330                                       | 9.100                                       | 2.240   | 0.005                                     | 8.08 |
| ARITH MEAN           |  | 236  | 0.845                                |                           | 11.9                             | 0.139  | 0.072                                       | 3.069                                       | 1.243   | 0.004                                     | 7.75 |
| GEOM MEAN            |  |  | 0.318                                |                           | 7.4                              | 0.081  | 0.052                                       | 2.475                                       | 1.159   |   | 7.75 |
| MINIMUM              |  | 20   | 0.083                                |                           | 0.5                              | 0.010  | 0.020                                       | 0.330                                       | 0.480   | 0.003                                     | 7.55 |
| STD DEV (GEOM *)     |  |  | 1.806                                |                           | 9.1                              | 0.149  | 0.084                                       | 2.152                                       | 0.456   |   | 0.18 |
| # SAMP IN STATISTICS |  | 11   | 12                                   |                           | 12                               | 12   | 12  | 12  | 12  | 3   | 12   |
| % SAMP (EXCLUDED)    |  | 8  |                                      |                           |                                  |  |   |   |   | 75  |      |

| *=INTERIM TEST-NAME: |      | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|---|--|--|-----------------------------------|-------------------------|---|-------|
| 870121               | 0940 | 38413                                     | 0.045  | 0.076  | 4                                 | 14.9                    | 6.70                                      | 0.007 |
| 870212               | 1330 | 38440                                     | 0.027  | 0.064  | 4<                                | 8.8                     | 11.80                                     | 0.015 |
| 870317               | 1330 | 38467                                     | 0.022  | 0.051  | 4<                                | 5.8                     | 7.50                                      | 0.034 |
| 870421               | 1330 | 38494                                     | 0.034  | 0.130  | 20                                | 46.1                    | 10.30                                     | 0.038 |
| 870520               | 1330 | 38521                                     | 0.057  | 0.175  | 4<                                | 28.8                    | 32.00                                     | 0.049 |
| 870617               | 1330 | 38548                                     | 0.010  | 0.285  | 4<                                | 42.8                    | 31.00                                     | 0.047 |
| 870722               | 1330 | 38575                                     | 0.019  | 0.156  | 4                                 | 35.0                    | 31.00                                     | 0.018 |
| 870818               | 1330 | 38602                                     | 0.045  | 0.170  | 8                                 | 42.1                    | 43.00                                     | 0.018 |
| 870923               | 0915 | 38629                                     | 0.056  | 0.158  | 20                                | 45.2                    | 53.00                                     | 0.016 |
| 871021               | 1330 | 38656                                     | 0.038  | 0.115  | 4<                                | 25.3                    | 33.00                                     | 0.016 |
| 871118               | 0940 | 38683                                     | 0.022  | 0.130  | 16                                | 39.4                    | 42.00                                     | 0.015 |
| 871216               | 1330 | 38710                                     | 0.079  | 0.230  |                                   | 68.5                    | 80.00                                     | 0.020 |
| MAXIMUM              |      | 0.079                                     | 0.285  | 20   | 68.5                              | 80.00                   | 0.049                                     |       |
| ARITH MEAN           |      | 0.038                                     | 0.145  | 12   | 33.6                              | 31.77                   | 0.024                                     |       |
| GEOM MEAN            |      | 0.033                                     | 0.130  |  | 27.6                              | 24.53                   | 0.021                                     |       |
| MINIMUM              |      | 0.010                                     | 0.051  | 4  | 5.8                               | 6.70                    | 0.007                                     |       |
| STD DEV (GEOM *)     |      | 0.020                                     | 0.068  |  | 17.9                              | 21.51                   | 0.014                                     |       |
| # SAMP IN STATISTICS |      | 12  | 12   | 6  | 12                                | 12                      | 12  |       |
| % SAMP (EXCLUDED)    |      |   |  | 45   |                                   |                         |   |       |

B.O.W./ SITE: LOCK DRAIN  
 SAMPLE POINT: AT CONCESSION ROAD 22 HARWICH TWP  
 STATION TYPE: RIVER

STATION ID: 04-0013-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 04.38 LONG: 082 04 53.36

U T M: 17 0410925.0 4689125.0 4

REGION: 01

DISTANCE: 45.382

| *INTERIM TEST-NAME: |      | FWSADP               | FGPROJ        | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|---------------------|------|----------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                     |      |                      |               | ALK      | BOD      | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE DATE         | HOUR | SAMPLE               | PROJECT       | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| YYMMDD              | LMT  | NUMBER               | SUB-PROJ CODE | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                     |      |                      |               | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870126              | 1210 | 39403                | 0101          | 247.0    | 1.47     |          | 37.000   | 950.0    | 0.002    | 14.5     | 6500     |
| 870223              | 1100 | 39416                | 0101          | 132.0    | 2.24     |          | 20.000   | 500.0    | 0.010    | 16.0     | 3200     |
| 870323              | 1200 | 39430                | 0101          | 177.0    |          |          | 30.500   | 690.0    | 0.004    | 14.0     | 1000     |
| 870427              | 1130 | 39446                | 0101          | 99.9     | 21.20    |          | 44.500   | 610.0    | 0.005    |          | 120      |
| 870525              | 1157 | 39462                | 0101          | 73.0     | 2.16     |          | 38.500   | 615.0    | 0.004    | 13.0     | 452      |
| 870824              | 1143 | 39504                | 0101          | 155.0    | 0.28     |          | 39.000   | 590.0    | 0.009    | 10.0     | 3500     |
| 870928              | 1158 | 39518                | 0101          | 217.0    | 0.63     | 29.300   |          | 740.0    | 0.007    | 10.0     | 1150     |
| 871026              | 1051 | 39532                | 0101          | 166.3    | 1.44     | 29.560   |          | 665.0    | 0.007    | 16.5     | 700AID   |
| 871124              | 1050 | 39548                | 0101          | 167.8    | 15.60    | 48.880   |          | 710.0    | 0.003    | 18.5     | 1500     |
|                     |      | MAXIMUM              | 0.30          | 247.0    | 21.20    | 48.880   | 44.500   | 950.0    | 0.010    | 18.5     | 6500     |
|                     |      | ARITH MEAN           | 0.30          | 159.4    | 5.63     | 35.913   | 34.917   | 674.4    | 0.006    | 14.1     | 2014     |
|                     |      | GEOM MEAN            |               | 150.5    | 2.22     | 34.853   | 33.864   | 664.7    | 0.005    | 13.8     | 1190     |
|                     |      | MINIMUM              | 0.30          | 73.0     | 0.28     | 29.300   | 20.000   | 500.0    | 0.002    | 10.0     | 120      |
|                     |      | STD DEV (GEOM *)     |               | 53.8     | 8.05     | 11.230   | 8.576    | 126.0    | 0.003    | 3.0      | 3*       |
|                     |      | # SAMP IN STATISTICS | 9             | 9        | 8        | 3        | 6        | 9        | 9        | 8        | 9        |
|                     |      | % SAMP (EXCLUDED)    |               |          |          |          |          |          |          |          |          |

| *INTERIM TEST-NAME: |      | FMSF                 | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PPO4UR   |
|---------------------|------|----------------------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                     |      | FECAL                |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
| SAMPLE DATE         | HOUR | STREPCUS             |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| YYMMDD              | LMT  | MF                   | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   | MG/L     |
|                     |      | /100ML               | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      | AS P     |
| 870126              | 1210 | 39403                | 4      | 0.5    | 0.235    | 0.020    | 4.600    | 0.830    | 0.003<   | 7.76 | 0.049    |
| 870223              | 1100 | 39416                | 4      | 0.5    | 0.060    | 0.160    | 2.800    | 1.000    | 0.008    | 7.69 | 0.089    |
| 870323              | 1200 | 39430                | 6      | 4.0    | 0.030    | 0.010    | 1.400    | 0.490    | 0.003<   | 8.20 | 0.012    |
| 870427              | 1130 | 39446                | 6 5    | 11.0   | 0.200    | 0.420    | 1.900    | 5.400    | 0.003<   | 8.22 | 0.140    |
| 870525              | 1157 | 39462                | 5      | 14.0   | 0.005<   | 0.010<   | 0.100<   | 0.730    | 0.003<   | 8.38 | 0.001<   |
| 870824              | 1143 | 39504                | 6      | 19.0   | 0.040    | 0.120    | 3.800    | 1.500    | 0.003<   | 8.08 | 0.101    |
| 870928              | 1158 | 39518                | 6      | 15.0   | 0.055    | 0.030    | 2.300    | 0.750    | 0.003<   | 8.09 | 0.028    |
| 871026              | 1051 | 39532                | 6      | 9.0    | 0.012    | 0.020    | 5.800    | 12.200   | 0.003<   | 7.88 | 0.085    |
| 871124              | 1050 | 39548                | 5      | 5.0    | 0.985    | 0.030    | 1.700    | 4.350    | 0.003<   | 7.94 | 0.091    |
|                     |      | MAXIMUM              | 1600   | 19.0   | 0.985    | 0.420    | 5.800    | 12.200   | 0.008    | 8.38 | 0.140    |
|                     |      | ARITH MEAN           | 535    | 8.7    | 0.202    | 0.101    | 3.037    | 3.028    | 0.008    | 8.03 | 0.074    |
|                     |      | GEOM MEAN            |        | 5.0    |          |          |          | 1.660    |          | 8.02 |          |
|                     |      | MINIMUM              | 30     | 0.5    | 0.012    | 0.010    | 1.400    | 0.490    | 0.008    | 7.69 | 0.012    |
|                     |      | STD DEV (GEOM *)     |        | 6.6    |          |          |          | 3.868    |          | 0.23 |          |
|                     |      | # SAMP IN STATISTICS | 8      | 9      | 8        | 8        | 8        | 9        | 1        | 9    | 8        |
|                     |      | % SAMP (EXCLUDED)    | 11     |        | 11       | 11       | 11       |          | 88       |      | 11       |

( C O N T D )

B.O.W./ SITE: LOCK DRAIN  
 SAMPLE POINT: AT CONCESSION ROAD 22 HARWICH TWP  
 STATION TYPE: RIVER

STATION ID: 04-0013-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 04.38 LONG: 082 04 53.36

U T M: 17 0410925.0 4689125.0 4

REGION: 01

DISTANCE: 45.382

| *INTERIM TEST-NAME:      |             | PPUT             | PSAMF<br>PSEUDOMN<br>AERUG.          | RSP                        | TURB            | ZNUT                              |       |
|--------------------------|-------------|------------------|--------------------------------------|----------------------------|-----------------|-----------------------------------|-------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
| 870126                   | 1210        | 39403            | 0.085                                | 4<                         | 12.3            | 17.30                             | 0.014 |
| 870223                   | 1100        | 39416            | 0.250                                | 8                          | 45.1            | 89.00                             | 0.047 |
| 870323                   | 1200        | 39430            | 0.029                                | 4<                         | 23.6            | 33.00                             | 0.008 |
| 870427                   | 1130        | 39446            | 0.625                                | 4<                         | 61.7            | 55.00                             | 0.012 |
| 870525                   | 1157        | 39462            | 0.049                                | 8                          | 11.7            | 20.00                             | 0.002 |
| 870824                   | 1143        | 39504            | 0.180                                | 52                         | 30.8            | 88.00                             | 0.021 |
| 870928                   | 1158        | 39518            | 0.057                                | 28                         | 16.6            | 19.00                             | 0.005 |
| 871026                   | 1051        | 39532            | 0.260                                | 12                         | 16.1            | 48.00                             | 0.014 |
| 871124                   | 1050        | 39548            | 0.490                                | 44C                        | 36.8            | 26.00                             | 0.009 |
| MAXIMUM                  |             | 0.625            | 52                                   | 61.7                       | 89.00           | 0.047                             |       |
| ARITH MEAN               |             | 0.225            | 25                                   | 28.3                       | 43.92           | 0.015                             |       |
| GEOM MEAN                |             | 0.143            |                                      | 24.2                       | 36.56           | 0.011                             |       |
| MINIMUM                  |             | 0.029            | 8                                    | 11.7                       | 17.30           | 0.002                             |       |
| STD DEV (GEOM *)         |             | 0.210            |                                      | 17.0                       | 28.41           | 0.013                             |       |
| # SAMP IN STATISTICS     |             | 9                | 6                                    | 9                          | 9               | 9                                 |       |
| % SAMP (EXCLUDED)        |             |                  | 33                                   |                            |                 |                                   |       |

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: CONC.10 W.TILBURY TWP.W.OF STRANGFIELD  
 STATION TYPE: RIVER

STATION ID: 04-0013-033-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 11 33.66 LONG: 082 31 01.22

U T M: 17 0374740.0 4672070.0 4

REGION: 01

DISTANCE: 16.737

| *=INTERIM | TEST-NAME: | FWSADP               | FGPROJ | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|-----------|------------|----------------------|--------|----------|----------|----------|----------|----------|--------|--------|----------|
|           |            |                      |        |          |          |          | FECAL    | FECAL    |        |        | NH3-N    |
|           |            |                      |        |          |          |          | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE    | DATE       | DATE                 | SAMPLE | PROJECT  | CHLORIDE | CHLORIDE | CONDUCT. | MF       | MF     | WATER  | UNF.REAC |
| DATE      | HHMM       | HHMM                 | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | CNT      | CNT    | TEMP   | MG/L     |
| YYMMDD    | LMT        | NUMBER               | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | /100ML   | /100ML | DEG.C  | AS N     |
| 870113    | 1040       | 40802                | 0.30   | 0101     |          | 53.500   | 910.0    |          | 6 8    | 1.0    | 0.185    |
| 870210    | 1020       | 40814                | 0.30   | 0101     |          | 53.500   | 775.0    | 1500>    | 1500   | 4      | 0.310    |
| 870310    | 1025       | 40826                | 0.30   | 0101     | 33.500   |          | 800.0    |          |        | 4      | 0.067    |
| 870414    | 1018       | 40838                | 0.30   | 0101     |          | 54.500   | 765.0    | 3100     | 10AID  | 6 8    | 0.040    |
| 870512    | 1014       | 40850                | 0.30   | 0101     |          | 63.000   | 870.0    | 100<     | 320    | 8 5    | 0.035    |
| 870609    | 1030       | 40862                | 0.30   | 0101     | 61.000   |          | 880.0    | 100      | 200    | 5 8    | 0.050    |
| 870714    | 1015       | 40874                | 0.30   | 0101     |          | 150.000  | 895.0    | 1400     | 3400   | 6 7    | 0.060    |
| 870813    | 0955       | 40886                | 0.30   | 0101     |          | 240.000  | 1290.0   | 100<     | 1200   | 6 7    | 0.065    |
| 870916    | 1145       | 40898                | 0.30   | 0101     | 70.000   |          | 725.0    | 1200     | 4400   | 6 8    | 0.010    |
| 871013    | 1030       | 40938                | 0.30   | 0101     | 156.000  |          | 1110.0   | 800AID   | 100AID | 6 8    | 0.005<   |
| 871110    | 1025       | 40949                | 0.30   | 0101     | 67.300   |          | 775.0    | 1100     | 2400   | 6 8    | 0.005<   |
| 871216    | 1135       | 40962                | 0.30   | 0101     | 18.800   |          | 276.0    | 2500     | 12000  | 6 8    | 0.109    |
|           |            | MAXIMUM              | 0.30   |          | 156.000  | 240.000  | 1290.0   | 3100     | 12000  |        | 0.310    |
|           |            | ARITH MEAN           | 0.30   |          | 67.767   | 102.417  | 839.2    | 1457     | 2553   |        | 0.093    |
|           |            | GEOM MEAN            |        |          | 55.182   | 84.099   | 797.0    |          | 741    |        |          |
|           |            | MINIMUM              | 0.30   |          | 18.800   | 53.500   | 276.0    | 100      | 10     |        | 0.010    |
|           |            | STD DEV (GEOM *)     |        |          | 47.766   | 77.238   | 239.9    |          | 8*     |        |          |
|           |            | # SAMP IN STATISTICS | 12     |          | 6        | 6        | 12       | 7        | 10     | 12     | 10       |
|           |            | % SAMP (EXCLUDED)    |        |          |          |          |          | 30       |        |        | 16       |

| *=INTERIM | TEST-NAME: | NN02UR | NN03UR   | NNTKUR   | PH       | PP04UR | PPUT     | RSP     | TURB     |
|-----------|------------|--------|----------|----------|----------|--------|----------|---------|----------|
|           |            |        |          | K'DAHL N |          |        |          |         |          |
|           |            |        |          | TOTAL    |          |        |          |         |          |
| SAMPLE    | DATE       | DATE   | UNF.REAC | UNF.REAC | UNF.REAC | PO4    | PHOSPHOR | RESIDUE | TURB'ITY |
| DATE      | HHMM       | HHMM   | MG/L     | MG/L     | MG/L     | MG/L   | MG/L     | PARTIC. | FTU      |
| YYMMDD    | LMT        | NUMBER | AS N     | AS N     | AS N     | AS P   | AS P     | MG/L    |          |
| 870113    | 1040       | 40802  | 0.020    | 2.700    | 0.850    | 8.07   | 0.071    | 0.110   | 33.00    |
| 870210    | 1020       | 40814  | 0.040    | 3.200    | 1.550    | 7.61   | 0.071    | 0.170   | 47.00    |
| 870310    | 1025       | 40826  | 0.020    | 3.600    | 1.050    | 8.07   | 0.049    | 0.115   | 54.00    |
| 870414    | 1018       | 40838  | 0.120    | 1.800    | 0.940    | 8.19   | 0.016    | 0.068   | 37.00    |
| 870512    | 1014       | 40850  | 0.020    | 0.200    | 0.980    | 8.15   | 0.014    | 0.044   | 16.20    |
| 870609    | 1030       | 40862  | 0.070    | 0.400    | 1.020    | 8.21   | 0.005    | 0.047   | 16.70    |
| 870714    | 1015       | 40874  | 0.020    | 0.100    | 1.300    | 7.94   | 0.019    | 0.120   | 73.00    |
| 870813    | 0955       | 40886  | 0.010    | 0.100<   | 1.040    | 7.84   | 0.012    | 0.096   | 32.00    |
| 870916    | 1145       | 40898  | 0.010    | 0.100    | 2.100    | 7.67   | 0.011    | 0.350   | 191.00   |
| 871013    | 1030       | 40938  | 0.010<   | 0.100<   | 1.100    | 7.81   | 0.013    | 0.134   | 102.00   |
| 871110    | 1025       | 40949  | 0.010<   | 2.600    | 1.040    | 7.64   | 0.048    | 0.150   | 49.00    |
| 871216    | 1135       | 40962  | 0.090    | 5.800    | 2.200    | 7.48   | 0.151    | 6.200   | 2360.0   |

( C O N T D )

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: CONC.10 W.TILBURY TWP.W.OF STRANGFIELD  
 STATION TYPE: RIVER

STATION ID: 04-0013-033-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 11 33.66 LONG: 082 31 01.22

U T M: 17 0374740.0 4672070.0 4

REGION: 01

DISTANCE: 16.737

| *=INTERIM TEST-NAME: |      | NN02UR               | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | RSP     | TURB     |        |
|----------------------|------|----------------------|----------|----------|-------|----------|----------|---------|----------|--------|
|                      |      | NO2-N                | NO3-N    | K'DAHL N |       | P04      | PHOSPHOR |         |          |        |
|                      |      | UNF.REAC             | UNF.REAC | TOTAL    |       | UNF.REAC | UNF.TOT. | RESIDUE |          |        |
| SAMPLE               |      | MG/L                 | MG/L     | MG/L     |       | MG/L     | MG/L     | PARTIC. | TURB'ITY |        |
| DATE                 | HOUR | AS N                 | AS N     | AS N     | PH    | AS P     | AS P     | MG/L    | FTU      |        |
| YYMMDD               | LMT  | SAMPLE               |          |          |       |          |          |         |          |        |
|                      |      | NUMBER               |          |          |       |          |          |         |          |        |
|                      |      | MAXIMUM              | 0.120    | 5.800    | 2.200 | 8.21     | 0.151    | 6.200   | 2360.0   | 191.00 |
|                      |      | ARITH MEAN           | 0.042    | 2.050    | 1.264 | 7.89     | 0.040    | 0.634   | 230.9    | 59.17  |
|                      |      | GEOM MEAN            |          |          | 1.204 | 7.89     | 0.025    | 0.152   | 42.7     | 45.82  |
|                      |      | MINIMUM              | 0.010    | 0.100    | 0.850 | 7.48     | 0.005    | 0.044   | 10.6     | 16.20  |
|                      |      | STD DEV (GEOM *)     |          |          | 0.452 | 0.25     | 0.042    | 1.755   | 671.1    | 50.25  |
|                      |      | # SAMP IN STATISTICS | 10       | 10       | 12    | 12       | 12       | 12      | 12       | 11     |
|                      |      | % SAMP (EXCLUDED)    | 16       | 16       |       |          |          |         |          |        |

## 56

STORET CODE: 02  
003  
2870

**DISTANCE: 208.726**

| *INTERIM |      | TEST-NAME: | NNO2UR    | NNO3UR    | NNTKUR    | PH   | PP04UR    | PPUT      | PSAMF    | P1PCBT  | RSP   | TURB     |       |
|----------|------|------------|-----------|-----------|-----------|------|-----------|-----------|----------|---------|-------|----------|-------|
|          |      |            | NO2-N     | NO3-N     | K'DAHL N  |      | PO4       | PHOSPHOR  | PSEUDOMN |         |       |          |       |
| SAMPLE   |      |            | UNF. REAC | UNF. REAC | UNF. REAC |      | UNF. REAC | UNF. TOT. | AERUG.   |         |       |          |       |
| DATE     | HR   | SAMPLE     | MG/L      | MG/L      | MG/L      |      | MG/L      | MG/L      | MF       |         | PCB   | RESIDUE  |       |
| YYMMDD   | LMT  | NUMBER     | AS N      | AS N      | AS N      | PH   | AS P      | AS P      | CNT      |         | TOTAL | PARTIC.  |       |
|          |      |            |           |           |           |      |           |           | /100ML   |         | NG/L  | MG/L     |       |
|          |      |            |           |           |           |      |           |           |          |         |       | TURB'ITY |       |
|          |      |            |           |           |           |      |           |           |          |         |       | FTU      |       |
| 870121   | 1005 | 38414      | 0.030     | 5.000     | 0.660     | 7.81 | 0.035     | 0.066     |          |         | 20<W  | 5.4      | 5.40  |
| 870212   | 1150 | 38441      | 0.030     | 2.500     | 0.870     | 7.74 | 0.031     | 0.067     | 4<       |         | 20<W  | 4.0      | 5.40  |
| 870317   | 1150 | 38468      | 0.010     | 3.300     | 0.870     | 7.94 | 0.031     | 0.086     | 4<       |         | 20<W  | 10.4     | 11.20 |
| 870421   | 1150 | 38495      | 0.040     | 1.400     | 0.920     | 8.09 | 0.015     | 0.066     | 4<       |         | 20<W  | 6.2      | 4.20  |
| 870520   | 1150 | 38522      | 0.080     | 0.080     | 0.840     | 8.15 | 0.050     | 0.106     | 4<       | NO DATA | SM    | 7.9      | 9.70  |
| 870617   | 1150 | 38549      | 0.020     | 0.200     | 0.950     | 8.24 | 0.106     | 0.200     | 12       |         | 20<W  | 5.0<     | 4.90  |
| 870722   | 1150 | 38576      | 0.030     | 0.300     | 0.900     | 8.12 | 0.106     | 0.210     | 4<       |         |       | 16.9     | 9.00  |
| 870818   | 1150 | 38603      | 0.020     | 0.100     | 0.920     | 7.95 | 0.078     | 0.166     | 16       |         |       | 12.0     | 8.20  |
| 870923   | 0945 | 38630      | 0.030     | 0.400     | 0.760     | 7.73 | 0.057     | 0.121     | 8        |         | 20<W  | 22.1     | 12.10 |
| 871021   | 1150 | 38657      | 0.010     | 0.400     | 0.650     | 7.72 | 0.040     | 0.105     | 312      |         | 20<W  | 22.4     | 55.00 |
| 871118   | 1005 | 38684      | 0.020     | 0.500     | 1.380     | 8.12 | 0.009     | 0.106     | 4<       |         | 20<W  | 6.4      | 4.10  |
| 871216   | 1150 | 38711      | 0.010     | 12.300    | 1.340     | 7.50 | 0.069     | 0.172     | 152C     |         | 20<W  | 39.9     | 50.00 |

( C O N T D )



B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: AT WELLINGTON ROAD  
 STATION TYPE: RIVER

STATION ID: 04-0013-037-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 43.24 LONG: 081 12 27.55

U T M: 17 0483050.0 4750850.0 4

REGION: 01

DISTANCE: 208.726

| *=INTERIM TEST-NAME: |       | NO2-N    | NO3-N    | NNTKUR   | PH   | PO4UR    | PPUT     | PSAMF    | P1PCBT | RSP   | TURB     |
|----------------------|-------|----------|----------|----------|------|----------|----------|----------|--------|-------|----------|
|                      |       | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |        |       |          |
|                      |       | UNF.REAC | UNF.REAC | TOTAL    |      | UNF.REAC | UNF.TOT. | AERUG.   |        | PCB   | RESIDUE  |
| SAMPLE               |       | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       |        | TOTAL | PARTIC.  |
| DATE                 | YMMDD | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      |        | NG/L  | MG/L     |
| YMMDD                | LMT   | AS N     | AS N     | AS N     |      |          |          | /100ML   |        |       | TURB'ITY |
|                      |       |          |          |          |      |          |          |          |        |       | FTU      |
|                      |       | 0.080    | 12.300   | 1.380    | 8.24 | 0.106    | 0.210    | 312      | 20     | 39.9  | 55.00    |
|                      |       | 0.027    | 2.207    | 0.922    | 7.93 | 0.052    | 0.123    | 100      | 20<A   | 14.0  | 14.93    |
|                      |       | 0.023    | 0.741    | 0.899    | 7.92 | 0.042    | 0.113    |          | 20<A   |       | 9.66     |
|                      |       | 0.010    | 0.080    | 0.650    | 7.50 | 0.009    | 0.066    | 8        | 20     | 4.0   | 4.10     |
|                      |       | 0.019    | 3.538    | 0.227    | 0.23 | 0.032    | 0.052    |          | 0<A    |       | 17.79    |
| # SAMP IN STATISTICS | 12    | 12       | 12       | 12       | 12   | 12       | 12       | 5        | 9      | 11    | 12       |
| % SAMP (EXCLUDED)    |       |          |          |          |      |          |          | 54       |        | 8     |          |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 48 WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 08 41.10 LONG: 080 46 05.51

U T M: 17 0518850.0 4776700.0 4

REGION: 01

DISTANCE: 261.028

| *=INTERIM | TEST-NAME: | FWSADP               | FGPROJ | ALKT     | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC |
|-----------|------------|----------------------|--------|----------|----------|----------|----------|----------|----------|--------|--------|
|           |            |                      |        |          |          |          |          |          |          |        |        |
| SAMPLE    |            |                      |        | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        |
| DATE      | HOUR       | SAMPLE               | SAMPLE | TOTAL    | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   |        |
| YYMMDD    | LMT        | NUMBER               | DEPTH  | MG/L     | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     | STREAM |
|           |            |                      | M      | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     | COND.  |
|           |            |                      |        |          |          |          |          | /100ML   | /100ML   |        |        |
| 870121    | 1240       | 38421                | 0.30   | 0101     |          | 34.500   | 820.0    | 10AID    | 24       | 2.120  | 6      |
| 870212    | 0850       | 38448                | 0.30   | 0101     |          | 52.000   | 840.0    | 56       | 80       | 0.970  | 6      |
| 870317    | 0850       | 38475                | 0.30   | 0101     |          | 27.500   | 635.0    | 4<       | 4<       | 0.774  | 6      |
| 870421    | 0850       | 38502                | 0.30   | 0101     |          | 27.000   | 585.0    | 32       | 4        | 2.560  | 6      |
| 870520    | 0850       | 38529                | 0.30   | 0101     |          | 33.000   | 545.0    | 32       | 40       | 0.486  |        |
| 870617    | 0850       | 38556                | 0.30   | 0101     |          | 30.500   | 560.0    | 112      | 48       | 0.590  | 6      |
| 870722    | 0850       | 38583                | 0.30   | 0101     |          | 30.000   | 530.0    | 180      | 80AID    | 1.530  | 6      |
| 870818    | 0850       | 38610                | 0.30   | 0101     |          | 33.500   | 492.0    | 2400     | 184      | 1.160  | 6      |
| 870923    | 1325       | 38637                | 0.30   | 0101     | 187.2    | 32.630   | 555.0    | 80AID    | 190      | 1.040  | 6      |
| 871021    | 0850       | 38664                | 0.30   | 0101     |          | 34.030   | 630.0    | 10AID    | 10<      | 1.070  | 6      |
| 871118    | 1240       | 38691                | 0.30   | 0101     |          | 39.230   | 685.0    | 16       | 20       | 1.830  | 6      |
| 871216    | 0850       | 38718                | 0.30   | 0101     |          | 39.070   | 705.0    | 790      | 1500>    | 6.270  | 6      |
|           |            | MAXIMUM              | 0.30   |          | 187.2    | 39.230   | 840.0    | 2400     | 190      | 6.270  |        |
|           |            | ARITH MEAN           | 0.30   |          | 187.2    | 36.240   | 631.8    | 338      | 74       | 1.700  |        |
|           |            | GEOM MEAN            |        |          |          | 36.119   | 623.3    |          |          | 1.314  |        |
|           |            | MINIMUM              | 0.30   |          | 187.2    | 32.630   | 492.0    | 10       | 4        | 0.486  |        |
|           |            | STD DEV (GEOM *)     |        |          |          | 3.409    | 7.955    | 111.9    |          | 1.569  |        |
|           |            | # SAMP IN STATISTICS | 12     |          | 1        | 4        | 8        | 12       | 11       | 9      | 12     |
|           |            | % SAMP (EXCLUDED)    |        |          |          |          |          | 8        | 25       |        |        |

| *=INTERIM | TEST-NAME: | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     |      |
|-----------|------------|--------|----------|----------|----------|----------|-------|----------|----------|----------|---------|------|
|           |            |        | NH3-N    |          |          | K'DAHL N |       |          |          | PSEUDOMN |         |      |
|           |            |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |       | P04      | PHOSPHOR | AERUG.   |         |      |
| SAMPLE    |            | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | MF       | RESIDUE |      |
| DATE      | HOUR       | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | CNT      | PARTIC. |      |
| YYMMDD    | LMT        | DEG.C  | AS N     | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   | MG/L    |      |
| 870121    | 1240       | 38421  | 1.0      | 0.125    | 0.030    | 7.300    | 0.640 | 8.13     | 0.061    | 0.092    | 4<      | 5.0< |
| 870212    | 0850       | 38448  | 0.5      | 0.225    | 0.010<   | 4.300    | 0.720 | 7.94     | 0.029    | 0.043    | 4<      | 5.0< |
| 870317    | 0850       | 38475  | 1.0      | 0.250    | 0.020    | 6.200    | 0.870 | 8.02     | 0.061    | 0.106    | 4<      | 8.1  |
| 870421    | 0850       | 38502  | 14.0     | 0.110    | 0.050    | 6.000    | 1.030 | 8.09     | 0.006    | 0.063    | 4<      | 14.7 |
| 870520    | 0850       | 38529  |          | 0.200    | 0.100    | 2.600    | 1.220 | 7.96     | 0.016    | 0.098    | 4       | 12.9 |
| 870617    | 0850       | 38556  | 19.5     | 0.175    | 0.110    | 3.000    | 1.360 | 7.99     | 0.004    | 0.080    | 4<      | 17.2 |
| 870722    | 0850       | 38583  | 24.5     | 0.175    | 0.070    | 1.100    | 1.270 | 8.24     | 0.002    | 0.084    | 4<      | 13.8 |
| 870818    | 0850       | 38610  | 22.0     | 0.300    | 0.050    | 0.300    | 1.360 | 7.84     | 0.024    | 0.110    | 4<      | 12.5 |
| 870923    | 1325       | 38637  | 16.0     | 0.255    | 0.030    | 0.200    | 1.680 | 7.95     | 0.051    | 0.126    | 4<      | 19.2 |
| 871021    | 0850       | 38664  | 9.0      | 0.390    | 0.010    | 0.600    | 1.400 | 7.94     | 0.013    | 0.132    | 4<      | 21.3 |
| 871118    | 1240       | 38691  | 7.0      | 0.073    | 0.030    | 3.000    | 1.580 | 8.23     | 0.007    | 0.116    | 4<      | 25.3 |
| 871216    | 0850       | 38718  | 0.5      | 0.095    | 0.110    | 9.100    | 0.950 | 8.04     | 0.092    | 0.126    | 4C      | 34.5 |

( C O N T D )

## 59

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: THAMES RIVER

STORET CODE: 02  
003  
2870

**DISTANCE: 261.028**

| *=INTERIM                | TEST-NAME:  | FWTEMP           | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br><br>N02-N      | NNO3UR<br><br>N03-N      | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PP04UR<br><br>P04        | PPUT<br><br>PHOSPHOR     | PSAMF<br>PSEUDOMN<br>AERUG,<br>MF<br>CNT<br>/100ML | RSP                        |      |
|--------------------------|-------------|------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--|----------------------------|------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P |  | RESIDUE<br>PARTIC.<br>MG/L |      |
|                          |             | MAXIMUM          | 24.5                     | 0.390                    | 0.110                    | 9.100                       | 1.680                    | 8.24                     | 0.092                    | 0.132  | 4                          | 34.5 |
|                          |             | ARITH MEAN       | 10.5                     | 0.198                    | 0.055                    | 3.642                       | 1.173                    | 8.03                     | 0.030                    | 0.098  | 4                          | 17.9 |
|                          |             | GEOM MEAN        | 4.9                      | 0.178                    |                          | 2.152                       | 1.127                    | 8.03                     | 0.018                    | 0.094  |                            |      |
|                          |             | MINIMUM          | 0.5                      | 0.073                    | 0.010                    | 0.200                       | 0.640                    | 7.84                     | 0.002                    | 0.043  | 4                          | 8.1  |
|                          |             | STD DEV (GEOM *) | 9.2                      | 0.093                    |                          | 2.960                       | 0.331                    | 0.12                     | 0.029                    | 0.027  |                            |      |
| # SAMP IN STATISTICS     |             |                  | 11                       | 12                       | 11                       | 12                          | 12                       | 12                       | 12                       | 12   | 2                          | 10   |
| % SAMP (EXCLUDED)        |             |                  |                          |                          | 8                        |                             |                          |                          |                          |  | 83                         | 16   |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT PEMBERTON STREET INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 43.48 LONG: 080 52 38.01 U T M: 17 0510000.0 4765650.0 4 REGION: 01 DISTANCE: 245.257

| *=INTERIM            |      | TEST-NAME: | FWSADP | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC |
|----------------------|------|------------|--------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |            |        |          |          |          |          |          | FECAL    | FECAL    |        |        |
|                      |      |            |        |          | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | COLIFORM | STREPCUS | STREAM |        |
|                      |      |            |        |          | TOTAL    | UNF.REAC | UNF.REAC | 25C      | MF       | MF       | FLOW   |        |
| SAMPLE               |      | SAMPLE     | SAMPLE | PROJECT  | MG/L     | MG/L     | MG/L     | UMHO/CM  | CNT      | CNT      | M3     | STREAM |
| DATE                 | HR   | NUMBER     | DEPTH  | SUB-PROJ | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | /100ML   | /100ML   | /S     | COND.  |
| YYMMDD               | LMT  |            | M      | CODE     |          |          |          |          |          |          |        |        |
| 870121               | 1305 | 38423      | 0.30   | 0101     | 258.0    |          | 64.000   | 860.0    | 372      | 112      | 5.000  | 6      |
| 870212               | 0950 | 38450      | 0.30   | 0101     | 245.0    |          | 83.000   | 940.0    | 76       | 84       | 2.580  | 6      |
| 870317               | 0950 | 38477      | 0.30   | 0101     | 227.0    |          | 42.500   | 725.0    | 100      | 68       | 4.540  | 6      |
| 870421               | 0950 | 38504      | 0.30   | 0101     | 214.0    |          | 44.500   | 685.0    | 52       | 8        | 6.410  | 6      |
| 870520               | 0950 | 38531      | 0.30   | 0101     | 213.0    |          | 67.000   | 800.0    | 112      | 52       | 1.850  |        |
| 870617               | 0950 | 38558      | 0.30   | 0101     | 199.0    |          | 72.000   | 835.0    | 360      | 316      | 2.860  | 6      |
| 870722               | 0950 | 38585      | 0.30   | 0101     | 186.0    |          | 64.000   | 730.0    | 200      | 200      | 2.400  | 6      |
| 870818               | 0950 | 38612      | 0.30   | 0101     | 182.0    |          | 61.500   | 680.0    | 1030     | 152      | 1.980  | 9      |
| 870923               | 1415 | 38639      | 0.30   | 0101     | 186.1    | 68.730   |          | 755.0    | 380      | 90AID    | 2.020  | 6      |
| 871021               | 0950 | 38666      | 0.30   | 0101     | 187.2    | 66.340   |          | 815.0    | 80AID    | 70AID    | 2.430  | 9      |
| 871118               | 1305 | 38693      | 0.30   | 0101     | 220.8    | 65.350   |          | 800.0    | 412      | 36       | 3.500  | 6      |
| 871216               | 0950 | 38720      | 0.30   | 0101     | 196.3    | 71.660   |          | 735.0    | 600>     | 600>     | 13.100 | 6      |
| MAXIMUM              |      |            | 0.30   |          | 258.0    | 71.660   | 83.000   | 940.0    | 1030     | 316      | 13.100 |        |
| ARITH MEAN           |      |            | 0.30   |          | 209.5    | 68.020   | 62.312   | 780.0    | 289      | 108      | 4.056  |        |
| GEOM MEAN            |      |            |        |          | 208.2    | 67.977   | 60.962   | 776.7    |          |          | 3.367  |        |
| MINIMUM              |      |            | 0.30   |          | 182.0    | 65.350   | 42.500   | 680.0    | 52       | 8        | 1.850  |        |
| STD DEV (GEOM *)     |      |            |        |          | 24.7     | 2.811    | 13.416   | 76.4     |          |          | 3.178  |        |
| # SAMP IN STATISTICS |      |            | 12     |          | 12       | 4        | 8        | 12       | 11       | 11       | 12     |        |
| % SAMP (EXCLUDED)    |      |            |        |          |          |          |          |          | 8        | 8        |        |        |

| *=INTERIM |      | TEST-NAME: | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|-----------|------|------------|--------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|           |      |            |        | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|           |      |            |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
|           |      |            |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| SAMPLE    |      | SAMPLE     | WATER  | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | PARTIC. |
| DATE      | HR   | NUMBER     | TEMP   | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L    |
| YYMMDD    | LMT  |            | DEG.C  |          |          |          |          |      |          |          |          |         |
| 870121    | 1305 | 38423      | 0.5    | 0.045    | 0.070    | 7.400    | 0.520    | 8.32 | 0.021    | 0.047    | 8        | 5.0<    |
| 870212    | 0950 | 38450      | 0.5    | 0.135    | 0.060    | 5.200    | 0.480    | 8.12 | 0.024    | 0.040    | 4<       | 5.0<    |
| 870317    | 0950 | 38477      | 2.0    | 0.115    | 0.050    | 5.500    | 0.650    | 8.14 | 0.035    | 0.059    | 8        | 4.0     |
| 870421    | 0950 | 38504      | 12.5   | 0.080    | 0.050    | 5.700    | 1.060    | 8.13 | 0.011    | 0.090    | 4<       | 10.4    |
| 870520    | 0950 | 38531      |        | 0.150    | 0.190    | 4.100    | 0.940    | 7.99 | 0.034    | 0.072    | 4<       | 10.6    |
| 870617    | 0950 | 38558      | 20.0   | 0.060    | 0.150    | 4.300    | 0.730    | 8.10 | 0.034    | 0.078    | 4<       | 10.7    |
| 870722    | 0950 | 38585      | 25.0   | 0.055    | 0.060    | 2.500    | 0.870    | 8.26 | 0.030    | 0.120    | 4        | 16.6    |
| 870818    | 0950 | 38612      | 22.0   | 0.080    | 0.060    | 2.200    | 1.060    | 8.05 | 0.078    | 0.168    | 12       | 26.4    |
| 870923    | 1415 | 38639      | 14.0   | 0.100    | 0.060    | 2.600    | 0.800    | 8.04 | 0.071    | 0.114    | 4<       | 10.3    |
| 871021    | 0950 | 38666      | 7.5    | 0.175    | 0.070    | 2.900    | 0.730    | 7.92 | 0.025    | 0.066    | 4        | 5.0<    |
| 871118    | 1305 | 38693      | 7.5    | 0.125    | 0.090    | 4.000    | 1.180    | 8.14 | 0.006    | 0.080    | 4<       | 8.5     |
| 871216    | 0950 | 38720      | 1.5    | 0.095    | 0.090    | 8.300    | 1.180    | 7.98 | 0.138    | 0.192    | 48       | 30.4    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

61

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT PEMBERTON STREET INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 43.48 LONG: 080 52 38.01

U T M: 17 0510000.0 4765650.0 4

REGION: 01

DISTANCE: 245.257

| *=INTERIM TEST-NAME:     |             | FWTEMP           | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |
|--------------------------|-------------|------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|--|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     | UNF.TOT.<br>MG/L<br>AS P                 | UNF.TOT.<br>MG/L<br>AS P          |
| MAXIMUM                  |             | 25.0             | 0.175                    | 0.190                       | 8.300                       | 1.180                       | 8.32                     | 0.138                     | 0.192                        | 48                                       | 30.4                              |
| ARITH MEAN               |             | 10.3             | 0.101                    | 0.083                       | 4.558                       | 0.850                       | 8.10                     | 0.042                     | 0.094                        | 14                                       | 14.2                              |
| GEOM MEAN                |             | 5.2              | 0.094                    | 0.076                       | 4.190                       | 0.817                       | 8.10                     | 0.031                     | 0.084                        |  |                                   |
| MINIMUM                  |             | 0.5              | 0.045                    | 0.050                       | 2.200                       | 0.480                       | 7.92                     | 0.006                     | 0.040                        | 4  | 4.0                               |
| STD DEV (GEOM *)         |             | 9.1              | 0.040                    | 0.043                       | 1.946                       | 0.240                       | 0.11                     | 0.037                     | 0.047                        |  |                                   |
| # SAMP IN STATISTICS     |             | 11               | 12                       | 12                          | 12                          | 12                          | 12                       | 12                        | 12                           | 6  | 9                                 |
| % SAMP (EXCLUDED)        |             |                  |                          |                             |                             |                             |                          |                           |                              | 50                                       | 25                                |

\*=INTERIM TEST-NAME: TURB

| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | TURB'ITY<br>FTU |
|--------------------------|-------------|------------------|-----------------|
| 870121                   | 1305        | 38423            | 3.80            |
| 870212                   | 0950        | 38450            | 3.80            |
| 870317                   | 0950        | 38477            | 6.80            |
| 870421                   | 0950        | 38504            | 6.10            |
| 870520                   | 0950        | 38531            | 7.10            |
| 870617                   | 0950        | 38558            | 10.10           |
| 870722                   | 0950        | 38585            | 10.30           |
| 870818                   | 0950        | 38612            | 15.40           |
| 870923                   | 1415        | 38639            | 8.80            |
| 871021                   | 0950        | 38666            | 3.90            |
| 871118                   | 1305        | 38693            | 6.20            |
| 871216                   | 0950        | 38720            | 28.00           |

MAXIMUM 28.00  
 ARITH MEAN 9.19  
 GEOM MEAN 7.66  
 MINIMUM 3.80  
 STD DEV (GEOM \*) 6.80  
 # SAMP IN STATISTICS 12  
 % SAMP (EXCLUDED)

B.O.W./ SITE: MIDDLE THAMES RIVER  
 SAMPLE POINT: AT 2ND.CONC.RD.SOUTH OF THAMESFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD004

STATION ID: 04-0013-041-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 54.28 LONG: 080 59 60.00

U T M: 17 0500000.0 4764125.0 4

REGION: 01

DISTANCE: 239.786

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | CLIDUR    | CLIDUR    | COND25   | CUUT      | DO       | FCMF     | FEUT      |
|----------------------|------|--------|----------|----------|-----------|-----------|----------|-----------|----------|----------|-----------|
|                      |      |        |          |          |           |           |          |           |          | FECAL    | IRON      |
| SAMPLE               |      | SAMPLE | PROJECT  | ALK      | CHLORIDE  | CHLORIDE  | CONDUCT. | COPPER    | DISOLVED | COLIFORM | UNF. TOT. |
| DATE                 | HR   | DEPTH  | SUB-PROJ | TOTAL    | UNF. REAC | UNF. REAC | 25C      | UNF. TOT. | OXYGEN   | MF       | UNF. TOT. |
| YYMMDD               | LMT  | M      | CODE     | MG/L     | MG/L      | MG/L      | UMHO/CM  | MG/L      | MG/L     | CNT      | MG/L      |
|                      |      |        |          | AS CAC03 | AS CL     | AS CL-    | AT 25 C  | AS CU     | AS O     | /100ML   | AS FE     |
| 870121               | 1350 | 38425  | 0.30     | 0101     | 276.0     |           | 29.000   | 660.0     | 0.003<   | 24       | 0.110     |
| 870212               | 1110 | 38452  | 0.30     | 0101     | 268.0     |           | 29.000   | 715.0     | 0.003<   | 48       | 0.110     |
| 870317               | 1110 | 38479  | 0.30     | 0101     | 244.0     |           | 21.000   | 620.0     | 0.003<   | 8        | 0.190     |
| 870421               | 1110 | 38506  | 0.30     | 0101     | 227.0     |           | 24.000   | 605.0     | 0.003    | 4<       | 0.070     |
| 870520               | 1110 | 38533  | 0.30     | 0101     | 215.0     |           | 26.000   | 620.0     | 0.007    | 48       | 0.390     |
| 870617               | 1110 | 38560  | 0.30     | 0101     | 212.0     |           | 30.000   | 620.0     | 0.001    | 17.0     | 0.060     |
| 870722               | 1110 | 38587  | 0.30     | 0101     | 203.0     |           | 27.500   | 590.0     | 0.003<   | 80AID    | 0.210     |
| 870818               | 1110 | 38614  | 0.30     | 0101     | 191.0     |           | 29.000   | 570.0     |          | 180      |           |
| 870923               | 1450 | 38641  | 0.30     | 0101     | 233.4     | 29.040    | 650.0    | 0.001     | 18.0     | 360      | 0.014     |
| 871021               | 1110 | 38668  | 0.30     | 0101     | 221.5     | 31.470    | 650.0    | 0.001     | 6.0      | 170      | 0.052     |
| 871118               | 1350 | 38695  | 0.30     | 0101     | 261.3     | 32.050    | 650.0    | 0.003     | 14.0     | 72       | 0.120     |
| 871216               | 1110 | 38722  | 0.30     | 0101     | 199.6     | 33.570    | 620.0    | 0.001<    | 13.0     | 600>     | 0.600     |
| MAXIMUM              |      | 0.30   |          |          | 276.0     | 33.570    | 30.000   | 715.0     | 0.007    | 18.0     | 0.600     |
| ARITH MEAN           |      | 0.30   |          |          | 229.3     | 31.532    | 26.937   | 630.8     | 0.003    | 14.4     | 0.175     |
| GEOM MEAN            |      |        |          |          | 227.8     | 31.490    | 26.769   | 629.8     |          | 13.7     | 0.114     |
| MINIMUM              |      | 0.30   |          |          | 191.0     | 29.040    | 21.000   | 570.0     | 0.001    | 6.0      | 0.014     |
| STD DEV (GEOM *)     |      |        |          |          | 27.9      | 1.883     | 3.099    | 37.6      |          | 4.2      | 0.175     |
| # SAMP IN STATISTICS |      | 12     |          |          | 12        | 4         | 8        | 12        | 6        | 7        | 11        |
| % SAMP (EXCLUDED)    |      |        |          |          |           |           |          | 45        |          | 16       |           |

| *=INTERIM TEST-NAME: |      | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR    | NNO2UR    | NNO3UR    | NNTKUR    | PBUT      | PH     |      |
|----------------------|------|----------|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|--------|------|
|                      |      | FECAL    |        |        |        | NH3-N     | NO2-N     | NO3-N     | K' DAHL N | LEAD      |        |      |
|                      |      | STREPCUS | STREAM |        |        | TOTAL     | UNF. REAC | UNF. REAC | UNF. REAC | UNF. TOT. |        |      |
| SAMPLE               |      | MF       | FLOW   |        | WATER  | UNF. REAC | UNF. REAC | UNF. REAC | UNF. REAC | MG/L      |        |      |
| DATE                 | HR   | CNT      | M3     | STREAM | TEMP   | MG/L      | MG/L      | MG/L      | MG/L      | AS PB     | PH     |      |
| YYMMDD               | LMT  | /100ML   | /S     | COND.  | DEG.C  | AS N      | AS N      | AS N      | AS N      |           |        |      |
| 870121               | 1350 | 38425    | 112    | 2.150  | 4      | 0.5       | 0.060     | 0.020     | 8.800     | 0.470     | 0.030< | 8.25 |
| 870212               | 1110 | 38452    | 28     | 1.230  | 6      | 1.0       | 0.110     | 0.030     | 6.400     | 0.470     | 0.030< | 8.13 |
| 870317               | 1110 | 38479    | 40     | 5.170  | 6      | 3.0       | 0.090     | 0.020     | 7.800     | 0.590     | 0.030< | 8.21 |
| 870421               | 1110 | 38506    | 8      | 2.930  | 9      | 19.5      | 0.020     | 0.040     | 5.900     | 0.580     | 0.030  | 8.39 |
| 870520               | 1110 | 38533    | 16     | 1.130  | 9      | 15.5      | 0.030     | 0.060     | 3.800     | 0.630     | 0.005  | 8.31 |
| 870617               | 1110 | 38560    | 84     | 0.815  | 9      | 22.0      | 0.050     | 0.060     | 4.700     | 0.670     | 0.004  | 8.18 |
| 870722               | 1110 | 38587    | 40AID  | 0.595  | 9      | 27.0      | 0.015     | 0.030     | 3.300     | 0.630     | 0.030< | 8.40 |
| 870818               | 1110 | 38614    | 56     | 0.594  | 6      | 24.5      | 0.035     | 0.030     | 2.100     | 0.670     |        | 8.17 |
| 870923               | 1450 | 38641    | 170    | 0.904  | 6      | 15.0      | 0.005     | 0.020     | 3.000     | 0.550     | 0.003< | 8.20 |
| 871021               | 1110 | 38668    | 10AID  | 0.697  | 6      | 7.5       | 0.005<    | 0.010<    | 3.500     | 0.410     | 0.003< | 8.07 |
| 871118               | 1350 | 38695    | 44     | 1.120  | 6      | 7.5       | 0.005<    | 0.010     | 5.100     | 0.500     | 0.003< | 8.26 |
| 871216               | 1110 | 38722    | 600>   | 14.800 | 6      | 1.5       | 0.120     | 0.060     | 11.700    | 0.870     | 0.003< | 7.97 |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

63

B.O.W./ SITE: MIDDLE THAMES RIVER  
 SAMPLE POINT: AT 2ND.CONC.RD.SOUTH OF THAMESFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD004

STATION ID: 04-0013-041-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 54.28 LONG: 080 59 60.00 U T M: 17 0500000.0 4764125.0 4 REGION: 01 DISTANCE: 239.786

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 170  | 14.800                               |                           | 27.0                             | 0.120  | 0.060                                       | 11.700                                      | 0.870   | 0.030                                     | 8.40 |
| ARITH MEAN           |  | 55   | 2.678                                |                           | 12.0                             | 0.053  | 0.035                                       | 5.508                                       | 0.587   | 0.013                                     | 8.21 |
| GEOM MEAN            |  |  | 1.506                                |                           | 6.7                              |  |   | 4.920                                       | 0.576   |   | 8.21 |
| MINIMUM              |  | 8  | 0.594                                |                           | 0.5                              | 0.005  | 0.010                                       | 2.100                                       | 0.410   | 0.004                                     | 7.97 |
| STD DEV (GEOM *)     |  |  | 4.041                                |                           | 9.7                              |  |   | 2.795                                       | 0.123   |   | 0.12 |
| # SAMP IN STATISTICS |  | 11   | 12                                   |                           | 12                               | 10   | 11  | 12  | 12  | 3   | 12   |
| % SAMP (EXCLUDED)    |  | 8  |                                      |                           |                                  | 16   | 8   |   |   | 72  |      |

| *=INTERIM TEST-NAME: |      | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|--|---|--|--|-----------------------------------|-------------------------|---|-------|
| 870121               | 1350 | 38425  | 1.000<                                    | 0.024  | 0.041  | 4<                                | 5.0<                    | 2.60                                      | 0.095 |
| 870212               | 1110 | 38452  | 1.000<                                    | 0.024  | 0.033  | 4<                                | 5.0<                    | 2.10                                      | 0.004 |
| 870317               | 1110 | 38479  |   | 0.050  | 0.075  | 4                                 | 4.9                     | 3.60                                      | 0.043 |
| 870421               | 1110 | 38506  | 1.000<                                    | 0.009  | 0.030  | 4<                                | 5.0<                    | 1.50                                      | 0.043 |
| 870520               | 1110 | 38533  | 1.000<                                    | 0.010  | 0.048  | 4<                                | 5.0<                    | 3.00                                      | 0.051 |
| 870617               | 1110 | 38560  | 1.000<                                    | 0.046  | 0.061  | 4<                                | 11.2                    | 5.60                                      | 0.007 |
| 870722               | 1110 | 38587  | 1.000<                                    | 0.008  | 0.051  | 4<                                | 8.2                     | 2.70                                      | 0.006 |
| 870818               | 1110 | 38614  | 1.000<                                    | 0.024  | 0.054  | 4<                                | 8.5                     | 5.80                                      |       |
| 870923               | 1450 | 38641  |   | 0.023  | 0.046  | 4<                                | 3.2                     | 3.10                                      | 0.012 |
| 871021               | 1110 | 38668  | 1.000<                                    | 0.011  | 0.014  | 4<                                | 5.0<                    | 0.94                                      | 0.007 |
| 871118               | 1350 | 38695  | 1.000<                                    | 0.006  | 0.052  | 4<                                | 5.0<                    | 1.76                                      | 0.005 |
| 871216               | 1110 | 38722  | 1.000<                                    | 0.119  | 0.136  | 48                                | 18.2                    | 9.30                                      | 0.005 |
| MAXIMUM              |      |  |   | 0.119  | 0.136  | 48                                | 18.2                    | 9.30                                      | 0.095 |
| ARITH MEAN           |      |  |   | 0.029  | 0.053  | 26                                | 9.0                     | 3.50                                      | 0.025 |
| GEOM MEAN            |      |  |   | 0.020  | 0.047  |                                   |                         | 2.91                                      | 0.014 |
| MINIMUM              |      |  |   | 0.006  | 0.014  | 4                                 | 3.2                     | 0.94                                      | 0.004 |
| STD DEV (GEOM *)     |      |  |   | 0.032  | 0.030  |                                   |                         | 2.35                                      | 0.029 |
| # SAMP IN STATISTICS |      |  | 12  | 12   | 2  | 6                                 | 12                      | 11  |       |
| % SAMP (EXCLUDED)    |      |  |   |  | 83   | 50                                |                         |   |       |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 06.44 LONG: 080 57 52.98

U T M: 17 0502875.0 4762650.0 4

REGION: 01

DISTANCE: 239.786

| *=INTERIM            | TEST-NAME: | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |            |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |            |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE               |            | SAMPLE | PROJECT  | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| DATE                 | HOUR       | SAMPLE | SUB-PROJ | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | LMT        | NUMBER | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870121               | 1325       | 38424  | 0101     | 276.0    | 1.39     |          | 76.500   | 860.0    | 0.004    | 16.0     | 344      |
| 870212               | 1050       | 38451  | 0101     | 248.0    | 0.83     |          | 75.000   | 890.0    | 0.001    |          | 100      |
| 870317               | 1050       | 38478  | 0101     | 232.0    | 1.56     |          | 40.500   | 690.0    | 0.002    | 18.0     | 190      |
| 870421               | 1050       | 38505  | 0101     | 220.0    | 2.52     |          | 47.000   | 715.0    | 0.004    | 16.0     | 64       |
| 870520               | 1050       | 38532  | 0101     | 208.0    | 2.13     |          | 68.500   | 830.0    | 0.004    | 14.0     | 108      |
| 870617               | 1050       | 38559  | 0101     | 201.0    | 1.53     |          | 73.500   | 840.0    | 0.004    | 17.0     | 356      |
| 870722               | 1050       | 38586  | 0101     | 184.0    | 2.00     |          | 57.000   | 695.0    | 0.002    | 17.0     | 830      |
| 870818               | 1050       | 38613  | 0101     | 187.0    | 2.16     |          | 68.000   | 730.0    |          | 17.0     | 1400     |
| 870923               | 1430       | 38640  | 0101     | 187.3    | 1.26     | 71.820   |          | 795.0    | 0.005    | 12.0     | 570      |
| 871021               | 1050       | 38667  | 0101     | 188.5    |          | 69.780   |          | 825.0    | 0.004    | 12.0     | 220      |
| 871118               | 1325       | 38694  | 0101     | 225.0    | 2.97     | 65.850   |          | 805.0    | 0.004    | 10.0     | 272      |
| 871216               | 1050       | 38721  | 0101     | 197.3    | 1.81     | 73.250   |          | 720.0    | 0.002    | 13.0     | 600>     |
| MAXIMUM              |            | 0.30   |          | 276.0    | 2.97     | 73.250   | 76.500   | 890.0    | 0.005    | 18.0     | 1400     |
| ARITH MEAN           |            | 0.30   |          | 212.8    | 1.83     | 70.175   | 63.250   | 782.9    | 0.003    | 14.7     | 405      |
| GEOM MEAN            |            |        |          | 211.2    | 1.74     | 70.119   | 61.813   | 780.1    | 0.003    | 14.5     |          |
| MINIMUM              |            | 0.30   |          | 184.0    | 0.83     | 65.850   | 40.500   | 690.0    | 0.001    | 10.0     | 64       |
| STD DEV (GEOM *)     |            |        |          | 28.5     | 0.61     | 3.216    | 13.573   | 69.4     | 0.001    | 2.6      |          |
| # SAMP IN STATISTICS |            | 12     |          | 12       | 11       | 4        | 8        | 12       | 11       | 11       | 11       |
| % SAMP (EXCLUDED)    |            |        |          |          |          |          |          |          |          |          | 8        |

| *=INTERIM | TEST-NAME: | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH     |      |
|-----------|------------|----------|--------|--------|--------|----------|----------|----------|----------|----------|--------|------|
|           |            | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |        |      |
|           |            | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |        |      |
| SAMPLE    |            | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        |      |
| DATE      | HOUR       | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH     |      |
| YYMMDD    | LMT        | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |        |      |
| 870121    | 1325       | 38424    | 100    | 5.000  | 6      | 0.5      | 0.035    | 0.080    | 7.100    | 0.510    | 0.003< | 8.19 |
| 870212    | 1050       | 38451    | 28     | 2.580  | 6      | 0.5      | 0.065    | 0.050    | 5.100    | 0.410    | 0.003< | 8.17 |
| 870317    | 1050       | 38478    | 16     | 4.540  | 6      | 2.5      | 0.130    | 0.040    | 5.700    | 0.660    | 0.003< | 8.09 |
| 870421    | 1050       | 38505    | 4      | 6.410  | 6      | 17.0     | 0.055    | 0.060    | 5.700    | 0.830    | 0.003< | 7.99 |
| 870520    | 1050       | 38532    | 40     | 1.850  | 6      | 14.5     | 0.135    | 0.180    | 4.600    | 0.084    | 0.003< | 7.95 |
| 870617    | 1050       | 38559    | 124    | 2.860  | 6      | 21.0     | 0.030    | 0.130    | 4.300    | 0.760    | 0.003< | 7.98 |
| 870722    | 1050       | 38586    | 360    | 2.400  | 6      | 26.5     | 0.015    | 0.050    | 2.500    | 1.080    | 0.003< | 8.29 |
| 870818    | 1050       | 38613    | 168    | 1.980  | 6      | 23.5     | 0.065    | 0.050    | 2.000    | 1.000    |        | 8.05 |
| 870923    | 1430       | 38640    | 390    | 2.020  | 6      | 15.0     | 0.070    | 0.070    | 3.100    | 0.730    | 0.003< | 8.02 |
| 871021    | 1050       | 38667    | 70AID  | 2.430  | 6      | 7.5      | 0.150    | 0.070    | 3.200    | 0.730    | 0.003< | 7.93 |
| 871118    | 1325       | 38694    | 12     | 3.500  | 6      | 7.5      | 0.099    | 0.140    | 4.000    | 0.920    | 0.003< | 8.12 |
| 871216    | 1050       | 38721    | 600>   | 13.100 | 6      | 1.5      | 0.035    | 0.130    | 8.900    | 1.180    | 0.004  | 7.98 |

( C O N T D )



B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 06.44 LONG: 080 57 52.98 U T M: 17 0502875.0 4762650.0 4 REGION: 01 DISTANCE: 239.786

| *INTERIM TEST-NAME:  |  | FMSF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 390  | 13.100                               |                           | 26.5                             | 0.150  | 0.180                                       | 8.900                                       | 1.180   | 0.004                                     | 8.29 |
| ARITH MEAN           |  | 119  | 4.056                                |                           | 11.5                             | 0.074  | 0.087                                       | 4.683                                       | 0.741   | 0.004                                     | 8.06 |
| GEOM MEAN            |  |  | 3.367                                |                           | 6.1                              | 0.060  | 0.078                                       | 4.310                                       | 0.638   |   | 8.06 |
| MINIMUM              |  | 4  | 1.850                                |                           | 0.5                              | 0.015  | 0.040                                       | 2.000                                       | 0.084   | 0.004                                     | 7.93 |
| STD DEV (GEOM *)     |  |  | 3.178                                |                           | 9.4                              | 0.045  | 0.046                                       | 1.981                                       | 0.304   |   | 0.11 |
| # SAMP IN STATISTICS |  | 11   | 12                                   |                           | 12                               | 12   | 12  | 12  | 12  | 1   | 12   |
| % SAMP (EXCLUDED)    |  | 8  |                                      |                           |                                  |  |   |   |   | 90  |      |

| *INTERIM TEST-NAME:  |      | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|---|--|--|-----------------------------------|-------------------------|---|-------|
| 870121               | 1325 | 38424                                     | 0.039  | 0.071  | 4<                                | 5.0<                    | 3.90                                      | 0.009 |
| 870212               | 1050 | 38451                                     | 0.016  | 0.019  | 4<                                | 5.0<                    | 2.60                                      | 0.008 |
| 870317               | 1050 | 38478                                     | 0.034  | 0.066  | 8                                 | 6.7                     | 6.40                                      | 0.045 |
| 870421               | 1050 | 38505                                     | 0.011  | 0.091  | 4<                                | 18.9                    | 7.30                                      | 0.043 |
| 870520               | 1050 | 38532                                     | 0.026  | 0.084  | 4<                                | 5.3                     | 4.80                                      | 0.035 |
| 870617               | 1050 | 38559                                     | 0.023  | 0.087  | 4<                                | 20.3                    | 13.80                                     | 0.037 |
| 870722               | 1050 | 38586                                     | 0.027  | 0.129  | 4<                                | 20.8                    | 13.00                                     | 0.011 |
| 870818               | 1050 | 38613                                     | 0.062  | 0.162  | 20                                | 26.1                    | 17.30                                     |       |
| 870923               | 1430 | 38640                                     | 0.067  | 0.113  | 8                                 | 11.6                    | 10.20                                     | 0.008 |
| 871021               | 1050 | 38667                                     | 0.026  | 0.080  | 4                                 | 5.9                     | 6.40                                      | 0.011 |
| 871118               | 1325 | 38694                                     | 0.008  | 0.138  | 4                                 | 10.1                    | 7.30                                      | 0.007 |
| 871216               | 1050 | 38721                                     | 0.114  | 0.158  | 24                                | 30.3                    | 21.00                                     | 0.014 |
| MAXIMUM              |      | 0.114                                     | 0.162  | 24   | 30.3                              | 21.00                   | 0.045                                     |       |
| ARITH MEAN           |      | 0.038                                     | 0.100  | 11   | 15.6                              | 9.50                    | 0.021                                     |       |
| GEOM MEAN            |      | 0.029                                     | 0.089  |  |                                   | 8.02                    | 0.016                                     |       |
| MINIMUM              |      | 0.008                                     | 0.019  | 4  | 5.3                               | 2.60                    | 0.007                                     |       |
| STD DEV (GEOM *)     |      | 0.030                                     | 0.042  |  |                                   | 5.68                    | 0.016                                     |       |
| # SAMP IN STATISTICS |      | 12  | 12   | 6  | 10                                | 12                      | 11  |       |
| % SAMP (EXCLUDED)    |      |   |  | 50   | 16                                |                         |   |       |

## 1987 WATER QUALITY DATA REGION 1

66

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 7  
 STATION TYPE: RIVER

STATION ID: 04-0013-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 29.81 LONG: 081 12 28.50

U T M: 17 0483110.0 4783750.0 4

REGION: 01

DISTANCE: 243.326

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |          |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |          |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE               |      | SAMPLE   | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| DATE                 | HR   | NUMBER   | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | LMT  |          | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870120               | 1135 | 38408    | 0101     | 288.0    | 1.27     |          | 25.500   | 640.0    | 0.004    | 14.0     | 128      |
| 870211               | 1245 | 38435    | 0101     | 278.0    | 1.14     |          | 35.000   | 715.0    | 0.002    |          | 260      |
| 870316               | 1245 | 38462    | 0101     | 245.0    | 1.39     |          | 20.500   | 595.0    | 0.002    |          | 40       |
| 870420               | 1245 | 38489    | 0101     | 195.0    | 2.08     |          | 22.500   | 525.0    | 0.003    | 17.0     | 8        |
| 870519               | 1245 | 38514    | 0101     | 191.0    | 1.31     |          | 35.000   | 590.0    | 0.002    |          | 24       |
| 870616               | 1245 | 38543    | 0101     | 159.0    | 2.64     |          | 39.000   | 530.0    | 0.003    | 17.0     | 48       |
| 870721               | 1245 | 38570    | 0101     | 142.0    | 3.76     |          | 45.500   | 570.0    | 0.006    | 16.0     | 1800     |
| 870817               | 1245 | 38597    | 0101     | 148.0    | 1.98     |          | 41.000   | 510.0    | 0.003    | 16.0     | 130      |
| 870921               | 1305 | 38624    | 0101     | 127.8    | 2.12     | 38.690   |          | 483.0    | 0.004    | 14.0     | 660      |
| 871020               | 1245 | 38651    | 0101     | 144.0    | 2.48     | 34.880   |          | 505.0    | 0.002    | 14.0     | 50AID    |
| 871116               | 1135 | 38678    | 0101     | 208.2    | 0.80     | 38.270   |          | 655.0    | 0.002    | 16.0     | 330      |
| 871214               | 1245 | 38705    | 0101     | 222.0    | 0.64     | 29.520   |          | 630.0    | 0.005    | 14.0     | 390      |
| MAXIMUM              |      | 0.30     |          | 288.0    | 3.76     | 38.690   | 45.500   | 715.0    | 0.006    | 17.0     | 1800     |
| ARITH MEAN           |      | 0.30     |          | 195.7    | 1.80     | 35.340   | 33.000   | 579.0    | 0.003    | 15.3     | 322      |
| GEOM MEAN            |      |          |          | 189.0    | 1.60     | 35.139   | 31.810   | 575.1    | 0.003    | 15.3     | 123      |
| MINIMUM              |      | 0.30     |          | 127.8    | 0.64     | 29.520   | 20.500   | 483.0    | 0.002    | 14.0     | 8        |
| STD DEV (GEOM *)     |      |          |          | 54.3     | 0.89     | 4.238    | 9.157    | 71.2     | 0.001    | 1.3      | 5*       |
| # SAMP IN STATISTICS |      | 12       |          | 12       | 12       | 4        | 8        | 12       | 12       | 9        | 12       |
| % SAMP (EXCLUDED)    |      |          |          |          |          |          |          |          |          |          |          |
| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC   | FWTEMP   | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      | FECAL    |          |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      | STREPCUS |          |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | PO4      |
| SAMPLE               |      | MF       |          | WATER    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
| DATE                 | HR   | CNT      | STREAM   | TEMP     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH       | MG/L     |
| YYMMDD               | LMT  | /100ML   | COND.    | DEG.C    | AS N     | AS N     | AS N     | AS N     | AS PB    |          | AS P     |
| 870120               | 1135 | 8        | 6        | 0.5      | 0.045    | 0.020    | 5.000    | 0.520    | 0.004    | 8.32     | 0.005    |
| 870211               | 1245 | 12       | 6        | 0.5      | 0.210    | 0.050    | 4.800    | 0.730    | 0.004    | 7.93     | 0.016    |
| 870316               | 1245 | 20       | 6        | 1.0      | 0.150    | 0.030    | 5.300    | 0.860    | 0.003<   | 8.25     | 0.046    |
| 870420               | 1245 | 4<       | 6        | 19.0     | 0.035    | 0.040    | 3.900    | 0.670    | 0.003<   | 8.25     | 0.025    |
| 870519               | 1245 | 4<       |          | 14.5     | 0.015    | 0.030    | 0.030    | 0.740    | 0.003<   | 8.47     | 0.003    |
| 870616               | 1245 | 36       | 6        | 24.5     | 0.020    | 0.040    | 1.300    | 1.000    | 0.003<   | 8.44     | 0.047    |
| 870721               | 1245 | 1000     | 6        | 26.5     | 0.030    | 0.020    | 0.100<   | 1.900    | 0.003<   | 8.15     | 0.035    |
| 870817               | 1245 | 20AID    | 6        | 26.0     | 0.015    | 0.020    | 0.600    | 0.960    | 0.003<   | 8.33     | 0.001<   |
| 870921               | 1305 | 80AID    | 6        | 17.0     | 0.005<   | 0.020    | 0.600    | 0.990    | 0.003<   | 8.27     | 0.025    |
| 871020               | 1245 | 10AID    | 6        | 9.0      | 0.005<   | 0.020    | 1.200    | 0.810    | 0.003<   | 8.00     | 0.014    |
| 871116               | 1135 | 170      | 6        | 6.5      | 0.005<   | 0.010    | 7.100    | 0.620    | 0.003<   | 8.38     | 0.004    |
| 871214               | 1245 | 150      | 6        | 2.5      | 0.041    | 0.020    | 10.500   | 0.730    | 0.003<   | 8.10     | 0.007    |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 7  
 STATION TYPE: RIVER

STATION ID: 04-0013-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 29.81 LONG: 081 12 28.50 U T M: 17 0483110.0 4783750.0 4 REGION: 01 DISTANCE: 243.326

| *=INTERIM TEST-NAME: |      | FSMF             | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|------------------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL            |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS         |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
| SAMPLE               |      | MF               |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| DATE                 | HOUR | CNT              | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| YYMMDD               | LMT  | /100ML           | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
|                      |      | MAXIMUM          | 1000   | 26.5   | 0.210    | 0.050    | 10.500   | 1.900    | 0.004    | 8.47 | 0.047    |
|                      |      | ARITH MEAN       | 151    | 12.3   | 0.062    | 0.027    | 3.666    | 0.877    | 0.004    | 8.24 | 0.021    |
|                      |      | GEOM MEAN        |        | 6.1    |          | 0.024    |          | 0.830    |          | 8.24 |          |
|                      |      | MINIMUM          | 8      | 0.5    | 0.015    | 0.010    | 0.030    | 0.520    | 0.004    | 7.93 | 0.003    |
|                      |      | STD DEV (GEOM *) |        | 10.3   |          | 0.012    |          | 0.355    |          | 0.17 |          |
| # SAMP IN STATISTICS |      | 10               |        | 12     | 9        | 12       | 11       | 12       | 2        | 12   | 11       |
| % SAMP (EXCLUDED)    |      | 16               |        |        | 25       |          | 8        |          | 83       |      | 8        |

| *=INTERIM TEST-NAME: |      | PPUT             | PSAMF    | RSP     | TURB     | ZNUT     |       |
|----------------------|------|------------------|----------|---------|----------|----------|-------|
|                      |      | PHOSPHOR         | PSEUDOMN |         |          |          |       |
|                      |      | UNF.TOT.         | AERUG.   | RESIDUE |          | ZINC     |       |
| SAMPLE               |      | MG/L             | MF       | PARTIC. | TURB'ITY | UNF.TOT. |       |
| DATE                 | HOUR | AS P             | CNT      | MG/L    | FTU      | MG/L     |       |
| YYMMDD               | LMT  |                  | /100ML   |         |          | AS ZN    |       |
| 870120               | 1135 | 38408            | 0.032    | 4<      | 2.8      | 2.80     | 0.005 |
| 870211               | 1245 | 38435            | 0.033    | 4<      | 2.4      | 2.10     | 0.013 |
| 870316               | 1245 | 38462            | 0.078    | 4<      | 4.2      | 4.10     | 0.039 |
| 870420               | 1245 | 38489            | 0.039    | 4<      | 5.0<     | 6.20     | 0.062 |
| 870519               | 1245 | 38514            | 0.037    | 4<      | 5.0<     | 2.20     | 0.050 |
| 870616               | 1245 | 38543            | 0.154    | 4<      | 19.5     | 7.50     | 0.037 |
| 870721               | 1245 | 38570            | 0.265    | 12      | 78.9     | 42.00    | 0.082 |
| 870817               | 1245 | 38597            | 0.078    | 4       | 19.0     | 12.60    | 0.004 |
| 870921               | 1305 | 38624            | 0.100    | 4<      | 14.1     | 16.90    | 0.006 |
| 871020               | 1245 | 38651            | 0.081    | 4<      | 12.3     | 10.50    | 0.010 |
| 871116               | 1135 | 38678            | 0.027    | 4<      | 7.9      | 3.80     | 0.008 |
| 871214               | 1245 | 38705            | 0.067    | 4<      | 7.0      | 5.00     | 0.005 |
|                      |      | MAXIMUM          | 0.265    | 12      | 78.9     | 42.00    | 0.082 |
|                      |      | ARITH MEAN       | 0.083    | 8       | 16.8     | 9.64     | 0.027 |
|                      |      | GEOM MEAN        | 0.065    |         |          | 6.36     | 0.016 |
|                      |      | MINIMUM          | 0.027    | 4       | 2.4      | 2.10     | 0.004 |
|                      |      | STD DEV (GEOM *) | 0.068    |         |          | 11.16    | 0.027 |
| # SAMP IN STATISTICS |      | 12               |          | 2       | 10       | 12       | 12    |
| % SAMP (EXCLUDED)    |      |                  |          | 83      | 16       |          |       |

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT CONCESSION ROAD 2 SOUTH OF MITCHELL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD014

STATION ID: 04-0013-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 26 50.47 LONG: 081 12 27.43

U T M: 17 0483200.0 4810300.0 4

REGION: 01

DISTANCE: 279.374

| *=-INTERIM TEST-NAME: |           | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|-----------------------|-----------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       |           |                      |        |          | BOD      |          |          |          |          |          | FECAL    |
|                       |           |                      |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                       |           |                      |        | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                       |           |                      |        | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                       |           |                      |        | MG/L     | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| SAMPLE                | DATE HOUR | SAMPLE               | SAMPLE | PROJECT  |          |          |          |          |          |          |          |
| DATE                  | HOUR      | NUMBER               | DEPTH  | SUB-PROJ |          |          |          |          |          |          |          |
| YYMMDD                | LMT       |                      | M      | CODE     | AS CAC03 |          |          |          |          |          |          |
| 870316                | 1000      | 38458                | 0.30   | 0101     | 266.0    | 1.23     | 17.500   | 630.0    | 0.001    |          | 172      |
| 870420                | 1000      | 38485                | 0.30   | 0101     | 247.0    | 1.48     | 17.500   | 595.0    | 0.003    | 14.0     | 60       |
| 870519                | 1000      | 38512                | 0.30   | 0101     | 198.0    | 2.21     | 20.500   | 520.0    | 0.003    | 12.0     | 288      |
| 870616                | 1000      | 38539                | 0.30   | 0101     | 149.0    | 4.15     | 20.000   | 417.0    | 0.003    | 18.0     | 152      |
| 870721                | 1000      | 38566                | 0.30   | 0101     | 177.0    | 1.55     | 13.000   | 487.0    | 0.004    |          | 800AID   |
| 870817                | 1000      | 38593                | 0.30   | 0101     | 216.0    | 1.94     | 21.000   | 520.0    | 0.004    | 12.0     | 10000    |
| 870921                | 1035      | 38620                | 0.30   | 0101     | 172.6    | 1.68     | 21.010   | 446.0    | 0.004    | 11.0     | 1500     |
| 871020                | 1000      | 38647                | 0.30   | 0101     | 173.8    | 2.26     | 29.120   | 466.0    | 0.003    | 11.0     | 140      |
| 871116                | 0945      | 38674                | 0.30   | 0101     | 274.1    | 0.65     | 25.600   | 675.0    | 0.002    | 12.0     | 350      |
| 871214                | 1000      | 38701                | 0.30   | 0101     | 251.3    | 0.37     | 24.530   | 645.0    | 0.005    | 11.0     | 610      |
|                       |           | MAXIMUM              | 0.30   |          | 274.1    | 4.15     | 29.120   | 675.0    | 0.005    | 18.0     | 10000    |
|                       |           | ARITH MEAN           | 0.30   |          | 212.5    | 1.75     | 25.065   | 540.1    | 0.003    | 12.6     | 1407     |
|                       |           | GEOM MEAN            |        |          | 208.2    | 1.47     | 24.897   | 533.3    | 0.003    | 12.5     | 418      |
|                       |           | MINIMUM              | 0.30   |          | 149.0    | 0.37     | 21.010   | 417.0    | 0.001    | 11.0     | 60       |
|                       |           | STD DEV (GEOM *)     |        |          | 44.7     | 1.04     | 3.340    | 90.3     | 0.001    | 2.4      | 4*       |
|                       |           | # SAMP IN STATISTICS | 10     |          | 10       | 10       | 4        | 6        | 10       | 8        | 10       |
|                       |           | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          |          |          |

| *=-INTERIM TEST-NAME: |           | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|-----------------------|-----------|----------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                       |           | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                       |           | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
|                       |           | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
|                       |           | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
|                       |           | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| SAMPLE                | DATE HOUR | SAMPLE   |        |        |        |          |          |          |          |          |      |
| DATE                  | HOUR      | NUMBER   |        |        |        |          |          |          |          |          |      |
| YYMMDD                | LMT       |          |        |        |        |          |          |          |          |          |      |
| 870316                | 1000      | 38458    | 48     | 5.410  | 6      | 0.5      | 0.255    | 0.030    | 5.900    | 0.003<   | 8.06 |
| 870420                | 1000      | 38485    | 4      | 1.360  | 6      | 12.5     | 0.040    | 0.050    | 4.400    | 0.003<   | 8.08 |
| 870519                | 1000      | 38512    | 80     | 0.291  | 9      | 14.0     | 0.080    | 0.040    | 0.040    | 0.003<   | 8.01 |
| 870616                | 1000      | 38539    | 144    | 0.059  | 6      | 22.0     | 0.090    | 0.020    | 0.200    | 0.003<   | 7.97 |
| 870721                | 1000      | 38566    | 1000   | 3.700  | 6      | 24.0     | 0.045    | 0.080    | 6.100    | 0.003<   | 7.87 |
| 870817                | 1000      | 38593    | 1500>  | 0.243  | 6      | 23.5     | 0.070    | 0.060    | 1.100    | 0.003<   | 7.87 |
| 870921                | 1035      | 38620    | 710    | 0.141  | 6      | 15.0     | 0.015    | 0.010    | 0.200    | 0.003<   | 7.88 |
| 871020                | 1000      | 38647    | 50AID  | 0.054  | 6      | 8.5      | 0.005<   | 0.010<   | 0.300    | 0.003<   | 8.01 |
| 871116                | 0945      | 38674    | 90AID  | 1.080  | 6      | 4.5      | 0.028    | 0.020    | 7.500    | 0.003<   | 8.17 |
| 871214                | 1000      | 38701    | 510    | 6.190  | 6      | 2.5      | 0.055    | 0.010<   | 12.500   | 0.003<   | 8.03 |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT CONCESSION ROAD 2 SOUTH OF MITCHELL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD014

STATION ID: 04-0013-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 26 50.47 LONG: 081 12 27.43

U T M: 17 0483200.0 4810300.0 4

REGION: 01

DISTANCE: 279.374

| *INTERIM TEST-NAME: |      | FMSF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH |
|---------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|----|
|                     |      | FECAL    | STREAM |        |        | NH3-N    |          |          | K'DAHL N |          |    |
|                     |      | STREPCUS | FLOW   |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |    |
| SAMPLE              |      | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |    |
| DATE                | HOUR | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |    |
| YYMMDD              | LMT  | NUMBER   | /100ML | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH |

|                      |  |      |       |  |      |       |       |        |       |  |      |
|----------------------|--|------|-------|--|------|-------|-------|--------|-------|--|------|
| MAXIMUM              |  | 1000 | 6.190 |  | 24.0 | 0.255 | 0.080 | 12.500 | 1.320 |  | 8.17 |
| ARITH MEAN           |  | 293  | 1.853 |  | 12.7 | 0.075 | 0.039 | 3.824  | 0.914 |  | 7.99 |
| GEOM MEAN            |  |      | 0.597 |  | 8.3  |       |       | 1.229  | 0.888 |  | 7.99 |
| MINIMUM              |  | 4    | 0.054 |  | 0.5  | 0.015 | 0.010 | 0.040  | 0.670 |  | 7.87 |
| STD DEV (GEOM *)     |  |      | 2.360 |  | 8.7  |       |       | 4.204  | 0.241 |  | 0.10 |
| # SAMP IN STATISTICS |  | 9    | 10    |  | 10   | 9     | 8     | 10     | 10    |  | 10   |
| % SAMP (EXCLUDED)    |  | 10   |       |  |      | 10    | 20    |        |       |  |      |

| *INTERIM TEST-NAME: |      | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     | ZNUT  |
|---------------------|------|----------|----------|----------|---------|----------|-------|
|                     |      | P04      | PHOSPHOR | PSEUDOMN |         |          |       |
|                     |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY | ZINC  |
| SAMPLE              |      | MG/L     | MG/L     | MF       | PARTIC. | FTU      | MG/L  |
| DATE                | HOUR | AS P     | AS P     | CNT      | MG/L    |          | AS ZN |
| YYMMDD              | LMT  | NUMBER   |          | /100ML   |         |          |       |

|        |      |       |        |       |     |      |       |       |
|--------|------|-------|--------|-------|-----|------|-------|-------|
| 870316 | 1000 | 38458 | 0.057  | 0.092 | 4<  | 5.6  | 6.30  | 0.036 |
| 870420 | 1000 | 38485 | 0.007  | 0.041 | 4<  | 5.0< | 5.50  | 0.085 |
| 870519 | 1000 | 38512 | 0.005  | 0.067 | 4   | 5.0< | 4.30  | 0.037 |
| 870616 | 1000 | 38539 | 0.019  | 0.144 | 28  | 17.2 | 11.30 | 0.040 |
| 870721 | 1000 | 38566 | 0.087  | 0.156 | 96  | 20.9 | 15.60 | 0.054 |
| 870817 | 1000 | 38593 | 0.001< | 0.081 | 108 | 15.1 | 10.00 | 0.004 |
| 870921 | 1035 | 38620 | 0.064  | 0.108 | 8   | 3.9  | 6.70  | 0.006 |
| 871020 | 1000 | 38647 | 0.007  | 0.062 | 4<  | 7.2  | 6.10  | 0.009 |
| 871116 | 0945 | 38674 | 0.008  | 0.062 | 16  | 40.5 | 10.20 | 0.006 |
| 871214 | 1000 | 38701 | 0.009  | 0.057 | 8   | 6.3  | 3.50  | 0.003 |

|                      |  |       |       |     |      |       |       |
|----------------------|--|-------|-------|-----|------|-------|-------|
| MAXIMUM              |  | 0.087 | 0.156 | 108 | 40.5 | 15.60 | 0.085 |
| ARITH MEAN           |  | 0.029 | 0.087 | 38  | 14.6 | 7.95  | 0.028 |
| GEOM MEAN            |  |       | 0.080 |     |      | 7.22  | 0.016 |
| MINIMUM              |  | 0.005 | 0.041 | 4   | 3.9  | 3.50  | 0.003 |
| STD DEV (GEOM *)     |  |       | 0.038 |     |      | 3.74  | 0.027 |
| # SAMP IN STATISTICS |  | 9     | 10    | 7   | 8    | 10    | 10    |
| % SAMP (EXCLUDED)    |  | 10    |       | 30  | 20   |       |       |

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 1.4 MILES DOWNSTREAM OF ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 14 18.63 LONG: 081 10 11.86

U T M: 17 0486200.0 4787100.0 4

REGION: 01

DISTANCE: 251.051

| *=INTERIM TEST-NAME:     |             | FWSADP           | FGPROJ               | ALKT                        | BOD5                             | CLIDUR               | CLIDUR               | COND25          | CUUT               | DO                 | FCMF                    |               |
|--------------------------|-------------|------------------|----------------------|-----------------------------|----------------------------------|----------------------|----------------------|-----------------|--------------------|--------------------|-------------------------|---------------|
|                          |             |                  |                      |                             | BOD<br>5 DAY<br>TOT.DEM.         | CHLORIDE<br>UNF.REAC | CHLORIDE<br>UNF.REAC | CONDUCT.<br>25C | COPPER<br>UNF.TOT. | DISOLVED<br>OXYGEN | FECAL<br>COLIFORM<br>MF |               |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | MG/L<br>AS O         | MG/L<br>AS CL        | MG/L<br>AS CL-  | UMHO/CM<br>AT 25 C | MG/L<br>AS CU      | MG/L<br>AS O            | CNT<br>/100ML |
| 870120                   | 0850        | 38402            | 0.30                 | 0101                        | 296.0                            | 0.94                 |                      | 29.500          | 710.0              | 0.004              | 17.0                    | 304           |
| 870211                   | 1115        | 38429            | 0.30                 | 0101                        | 277.0                            | 1.86                 |                      | 49.000          | 760.0              | 0.001              |                         | 244           |
| 870316                   | 1115        | 38456            | 0.30                 | 0101                        | 254.0                            | 1.66                 |                      | 25.000          | 625.0              | 0.001              |                         | 88            |
| 870420                   | 1115        | 38483            | 0.30                 | 0101                        | 239.0                            | 1.90                 |                      | 31.500          | 605.0              | 0.004              | 16.0                    | 160           |
| 870519                   | 1115        | 38510            | 0.30                 | 0101                        | 244.0                            | 1.63                 |                      | 41.500          | 630.0              | 0.003              | 16.0                    | 144           |
| 870616                   | 1115        | 38537            | 0.30                 | 0101                        | 220.0                            | 2.92                 |                      | 39.500          | 530.0              | 0.003              |                         | 340           |
| 870721                   | 1115        | 38564            | 0.30                 | 0101                        | 160.0                            | 2.41                 |                      | 36.000          | 545.0              | 0.003              | 15.0                    | 3100          |
| 870817                   | 1115        | 38591            | 0.30                 | 0101                        | 145.0                            | 1.97                 |                      | 40.500          | 491.0              | 0.003              |                         | 890           |
| 870921                   | 0945        | 38618            | 0.30                 | 0101                        | 123.3                            | 2.44                 | 34.850               |                 | 443.0              | 0.004              | 13.0                    | 1500>         |
| 871020                   | 1115        | 38645            | 0.30                 | 0101                        | 140.9                            | 2.60                 | 50.740               |                 | 555.0              | 0.003              | 16.0                    | 490           |
| 871116                   | 0850        | 38672            | 0.30                 | 0101                        | 220.2                            | 1.67                 | 37.620               |                 | 660.0              | 0.002              | 15.0                    | 310           |
| 871214                   | 1115        | 38699            | 0.30                 | 0101                        | 229.7                            | 0.54                 | 33.800               |                 | 635.0              | 0.006              | 11.0                    | 1200          |
| MAXIMUM                  |             | 0.30             |                      |                             | 296.0                            | 2.92                 | 50.740               | 49.000          | 760.0              | 0.006              | 17.0                    | 3100          |
| ARITH MEAN               |             | 0.30             |                      |                             | 212.4                            | 1.88                 | 39.252               | 36.562          | 599.1              | 0.003              | 14.9                    | 661           |
| GEOM MEAN                |             |                  |                      |                             | 204.8                            | 1.73                 | 38.723               | 35.837          | 592.7              | 0.003              | 14.7                    |               |
| MINIMUM                  |             | 0.30             |                      |                             | 123.3                            | 0.54                 | 33.800               | 25.000          | 443.0              | 0.001              | 11.0                    | 88            |
| STD DEV (GEOM *)         |             |                  |                      |                             | 56.7                             | 0.68                 | 7.826                | 7.679           | 90.7               | 0.001              | 2.0                     |               |
| # SAMP IN STATISTICS     |             | 12               |                      |                             | 12                               | 12                   | 4                    | 8               | 12                 | 12                 | 8                       | 11            |
| % SAMP (EXCLUDED)        |             |                  |                      |                             |                                  |                      |                      |                 |                    |                    |                         | 8             |

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS | FWFLOW              | FWSTRC                     | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        |      |
|--------------------------|-------------|---------------------------|---------------------|----------------------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER          | MF<br>CNT<br>/100ML | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH   |
| 870120                   | 0850        | 38402                     | 56                  | 7.400                      | 6               | 0.5                      | 0.100                    | 0.020                    | 5.300                       | 0.570                    | 0.003<                    | 8.25 |
| 870211                   | 1115        | 38429                     | 44                  | 4.970                      | 6               | 1.0                      | 0.445                    | 0.040                    | 4.200                       | 1.070                    | 0.004                     | 8.03 |
| 870316                   | 1115        | 38456                     | 44                  | 16.200                     | 6               | 1.0                      | 0.195                    | 0.030                    | 5.600                       | 0.860                    | 0.003<                    | 8.07 |
| 870420                   | 1115        | 38483                     | 40                  | 8.210                      | 6               | 13.0                     | 0.020                    | 0.050                    | 4.200                       | 0.740                    | 0.003<                    | 8.33 |
| 870519                   | 1115        | 38510                     | 28                  | 2.790                      | 6               | 16.0                     | 0.020                    | 0.050                    | 0.050                       | 0.850                    | 0.003<                    | 8.41 |
| 870616                   | 1115        | 38537                     | 88                  | 1.840                      | 6               | 24.0                     | 0.020                    | 0.040                    | 1.400                       | 0.950                    | 0.003<                    | 8.36 |
| 870721                   | 1115        | 38564                     | 2000                | 6.420                      | 6               | 26.5                     | 0.090                    | 0.040                    | 0.300                       | 1.500                    | 0.003<                    | 8.20 |
| 870817                   | 1115        | 38591                     | 110                 | 1.520                      | 6               | 25.0                     | 0.015                    | 0.040                    | 0.900                       | 0.980                    | 0.003<                    | 8.15 |
| 870921                   | 0945        | 38618                     | 620                 | 2.100                      | 6               | 17.0                     | 0.005<                   | 0.020                    | 0.700                       | 1.000                    | 0.003<                    | 8.16 |
| 871020                   | 1115        | 38645                     | 90AID               | 2.090                      | 6               | 9.0                      | 0.160                    | 0.030                    | 1.700                       | 1.000                    | 0.003                     | 7.93 |
| 871116                   | 0850        | 38672                     | 120                 | 5.740                      | 6               | 6.0                      | 0.001<                   | 0.010                    | 7.800                       | 0.640                    | 0.003<                    | 8.36 |
| 871214                   | 1115        | 38699                     | 180                 | 16.400                     | 6               | 2.5                      | 0.030                    | 0.020                    | 11.300                      | 0.690                    | 0.003<                    | 8.06 |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 1.4 MILES DOWNSTREAM OF ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 14 18.63 LONG: 081 10 11.86

U T M: 17 0486200.0 4787100.0 4

REGION: 01

DISTANCE: 251.051

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 2000   | 16.400                               |                           | 26.5                             | 0.445  | 0.050                                       | 11.300                                      | 1.500   | 0.004                                     | 8.41 |
| ARITH MEAN           |  | 285  | 6.307                                |                           | 11.8                             | 0.109  | 0.032                                       | 3.621                                       | 0.904   | 0.003                                     | 8.19 |
| GEOM MEAN            |  | 109  | 4.646                                |                           | 6.3                              | 0.030  | 0.030                                       | 1.784                                       | 0.876   |   | 8.19 |
| MINIMUM              |  | 28   | 1.520                                |                           | 0.5                              | 0.015  | 0.010                                       | 0.050                                       | 0.570   | 0.003                                     | 7.93 |
| STD DEV (GEOM *)     |  | 3*   | 5.200                                |                           | 9.9                              |  | 0.013                                       | 3.466                                       | 0.246   |   | 0.15 |
| # SAMP IN STATISTICS |  | 12   | 12                                   |                           | 12                               | 10   | 12  | 12  | 12  | 2   | 12   |
| % SAMP (EXCLUDED)    |  |  |                                      |                           |                                  | 16   |   |   |   | 83  |      |

| *=INTERIM TEST-NAME: |      | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|---|--|--|-----------------------------------|-------------------------|---|-------|
| 870120               | 0850 | 38402                                     | 0.019  | 0.038  | 4<                                | 5.0<                    | 2.60                                      | 0.006 |
| 870211               | 1115 | 38429                                     | 0.023  | 0.052  | 4<                                | 3.3                     | 2.50                                      | 0.009 |
| 870316               | 1115 | 38456                                     | 0.062  | 0.096  | 4<                                | 3.3                     | 4.40                                      | 0.041 |
| 870420               | 1115 | 38483                                     | 0.016  | 0.052  | 4                                 | 5.0<                    | 3.00                                      | 0.120 |
| 870519               | 1115 | 38510                                     | 0.011  | 0.050  | 4                                 | 5.0<                    | 3.00                                      | 0.048 |
| 870616               | 1115 | 38537                                     | 0.012  | 0.082  | 4                                 | 13.0                    | 8.50                                      | 0.042 |
| 870721               | 1115 | 38564                                     | 0.061  | 0.160  | 52                                | 30.9                    | 19.00                                     | 0.052 |
| 870817               | 1115 | 38591                                     | 0.001<                                       | 0.074  | 4<                                | 14.3                    | 11.30                                     | 0.003 |
| 870921               | 0945 | 38618                                     | 0.022  | 0.101  | 16                                | 15.8                    | 20.00                                     | 0.007 |
| 871020               | 1115 | 38645                                     | 0.013  | 0.085  | 4<                                | 14.7                    | 16.50                                     | 0.036 |
| 871116               | 0850 | 38672                                     | 0.004  | 0.034  | 12                                | 5.0<                    | 3.10                                      | 0.010 |
| 871214               | 1115 | 38699                                     | 0.015  | 0.067  | 4                                 | 5.0<                    | 4.20                                      | 0.007 |
| MAXIMUM              |      | 0.062                                     | 0.160  | 52   | 30.9                              | 20.00                   | 0.120                                     |       |
| ARITH MEAN           |      | 0.023                                     | 0.074  | 14   | 13.6                              | 8.17                    | 0.032                                     |       |
| GEOM MEAN            |      |   | 0.068  |  |                                   | 5.96                    | 0.018                                     |       |
| MINIMUM              |      | 0.004                                     | 0.034  | 4  | 3.3                               | 2.50                    | 0.003                                     |       |
| STD DEV (GEOM *)     |      |   | 0.035  |  |                                   | 6.80                    | 0.034                                     |       |
| # SAMP IN STATISTICS |      | 11  | 12   | 7  | 7                                 | 12                      | 12  |       |
| % SAMP (EXCLUDED)    |      | 8   |  | 41   | 41                                |                         |   |       |

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: AT HIGHWAY 2 WEST OF TILBURY  
 STATION TYPE: RIVER

STATION ID: 04-0013-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 15 49.05 LONG: 082 26 58.12 U T M: 17 0380450.0 4679850.0 4 REGION: 01 DISTANCE: 9.012

| *=INTERIM TEST-NAME:     |                     | FWSADP               | FGPROJ               | ALKT                        | CLIDUR                           | CLIDUR                                | COND25                                 | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC | FWTEMP |      |
|--------------------------|---------------------|----------------------|----------------------|-----------------------------|----------------------------------|---------------------------------------|--|--|--|--------|--------|------|
| SAMPLE<br>DATE<br>YYMMDD | DATE<br>HOUR<br>LMT | SAMPLE<br>NUMBER     | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CACO3 | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C            |  |        |        |      |
| 870126                   | 1050                | 39402                | 0.30                 | 0101                        | 217.0                            |                                       | 60.000                                 | 910.0  | 580  | 10AID  | 4      | 0.5  |
| 870223                   | 0959                | 39415                | 0.30                 | 0101                        | 174.0                            |                                       | 44.000                                 | 705.0  | 620  | 204    | 4      | 0.5  |
| 870323                   | 1120                | 39429                | 0.30                 | 0101                        | 177.0                            |                                       | 44.000                                 | 815.0  | 480  | 56     | 6      | 5.0  |
| 870427                   | 1041                | 39445                | 0.30                 | 0101                        | 174.0                            |                                       | 34.500                                 | 755.0  | 300  | 110    | 6      | 9.0  |
| 870525                   | 1115                | 39461                | 0.30                 | 0101                        | 150.0                            |                                       | 40.000                                 | 635.0  | 600>   | 144    | 6      | 17.0 |
| 870622                   | 1045                | 39477                | 0.30                 | 0101                        | 150.0                            |                                       | 68.000                                 | 605.0  | 480  | 330    | 9      | 24.0 |
| 870727                   | 1109                | 39490                | 0.30                 | 0101                        | 112.0                            |                                       | 40.000                                 | 424.0  | 490  | 220    | 6 9    | 26.0 |
| 870824                   | 1102                | 39503                | 0.30                 | 0101                        | 120.0                            |                                       | 33.000                                 | 438.0  | 280  | 280    | 6 9    | 21.0 |
| 870928                   | 1133                | 39517                | 0.30                 | 0101                        | 161.1                            | 28.670                                |  | 590.0  | 3300   | 30AID  | 6      | 17.0 |
| 871026                   | 1004                | 39531                | 0.30                 | 0101                        | 128.7                            | 42.770                                |  | 605.0  | 1300   | 3100   | 6 9    | 7.0  |
| 871124                   | 0953                | 39547                | 0.30                 | 0101                        | 216.0                            | 42.140                                |  | 850.0  | 4500   | 270    | 6      | 5.0  |
|                          |                     | MAXIMUM              | 0.30                 |                             | 217.0                            | 42.770                                | 68.000                                 | 910.0  | 4500   | 3100   |        | 26.0 |
|                          |                     | ARITH MEAN           | 0.30                 |                             | 161.8                            | 37.860                                | 45.437                                 | 666.5  | 1233   | 432    |        | 12.0 |
|                          |                     | GEOM MEAN            |                      |                             | 158.4                            | 37.247                                | 44.132                                 | 648.6  |  | 151    |        | 6.8  |
|                          |                     | MINIMUM              | 0.30                 |                             | 112.0                            | 28.670                                | 33.000                                 | 424.0  | 280  | 10     |        | 0.5  |
|                          |                     | STD DEV (GEOM *)     |                      |                             | 34.8                             | 7.965                                 | 12.298                                 | 158.0  |  | 4*     |        | 9.3  |
|                          |                     | # SAMP IN STATISTICS | 11                   |                             | 11                               | 3                                     | 8                                      | 11   | 10   | 11     |        | 11   |
|                          |                     | % SAMP (EXCLUDED)    |                      |                             |                                  |                                       |  |  | 9  |        |        |      |

| *=INTERIM TEST-NAME: |      | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PH    | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU |        |
|----------------------|------|--|---|---|---|-------|---|--|--|-----------------------------------|-------------------------|--------|
| 870126               | 1050 | 39402  | 0.230                                       | 0.080                                       | 3.300   | 1.460 | 7.75                                      | 0.168  | 0.236  | 12                                | 13.4                    | 19.20  |
| 870223               | 0959 | 39415  | 0.205                                       | 0.260                                       | 1.400   | 1.600 | 7.63                                      | 0.059  | 0.210  | 116                               | 66.2                    | 81.00  |
| 870323               | 1120 | 39429  | 0.095                                       | 0.040                                       | 1.500   | 0.900 | 8.15                                      | 0.092  | 0.215  | 4<                                | 41.9                    | 44.00  |
| 870427               | 1041 | 39445  | 0.205                                       | 0.080                                       | 1.200   | 1.200 | 7.95                                      | 0.127  | 0.570  | 4<                                | 53.6                    | 60.00  |
| 870525               | 1115 | 39461  | 0.537                                       | 0.070                                       | 2.200   | 1.800 | 7.67                                      | 0.352  | 0.535  | 4<                                | 41.0                    | 43.00  |
| 870622               | 1045 | 39477  | 0.435                                       | 0.070                                       | 0.200   | 2.100 | 7.45                                      | 0.378  | 0.595  | 336                               | 46.3                    | 58.00  |
| 870727               | 1109 | 39490  | 0.159                                       | 0.140                                       | 1.100   | 2.000 | 7.84                                      | 0.072  | 0.365  | 56                                | 64.4                    | 112.00 |
| 870824               | 1102 | 39503  | 0.340                                       | 0.260                                       | 0.900   | 1.700 | 7.50                                      | 0.045  | 0.280  | 296                               | 63.5                    | 56.00  |
| 870928               | 1133 | 39517  | 0.370                                       | 0.080                                       | 2.500   | 2.500 | 7.77                                      | 0.114  | 0.350  | 128                               | 19.0                    | 82.00  |
| 871026               | 1004 | 39531  | 0.088                                       | 0.050                                       | 4.900   | 2.100 | 7.75                                      | 0.114  | 0.360  | 50AID                             | 38.5                    | 93.00  |
| 871124               | 0953 | 39547  | 0.348                                       | 0.050                                       | 0.400   | 1.200 | 7.84                                      | 0.197  | 1.000  | 268C                              | 9.2                     | 11.60  |

( C O N T D )



B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: AT HIGHWAY 2 WEST OF TILBURY  
 STATION TYPE: RIVER

STATION ID: 04-0013-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 15 49.05 LONG: 082 26 58.12 U T M: 17 0380450.0 4679850.0 4 REGION: 01 DISTANCE: 9.012

| *=INTERIM TEST-NAME: |      | NNHTUR           | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |        |
|----------------------|------|------------------|----------|----------|----------|-------|----------|----------|----------|---------|----------|--------|
|                      |      | NH3-N            |          |          | K'DAHL N |       |          |          | PSEUDOMN |         |          |        |
|                      |      | TOTAL            | NO2-N    | NO3-N    | TOTAL    |       | P04      | PHOSPHOR | AERUG.   |         |          |        |
|                      |      | UNF.REAC         | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | MF       | RESIDUE |          |        |
| SAMPLE               |      | MG/L             | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | CNT      | PARTIC. | TURB'ITY |        |
| DATE                 | HOUR | AS N             | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   | MG/L    | FTU      |        |
| YYMMDD               | LMT  | NUMBER           |          |          |          |       |          |          |          |         |          |        |
|                      |      | MAXIMUM          | 0.537    | 0.260    | 4.900    | 2.500 | 8.15     | 0.378    | 1.000    | 336     | 66.2     | 112.00 |
|                      |      | ARITH MEAN       | 0.274    | 0.107    | 1.782    | 1.687 | 7.75     | 0.156    | 0.429    | 158     | 41.5     | 59.98  |
|                      |      | GEOM MEAN        | 0.237    | 0.088    | 1.299    | 1.622 | 7.75     | 0.126    | 0.381    |         | 35.2     | 50.69  |
|                      |      | MINIMUM          | 0.088    | 0.040    | 0.200    | 0.900 | 7.45     | 0.045    | 0.210    | 12      | 9.2      | 11.60  |
|                      |      | STD DEV (GEOM *) | 0.143    | 0.080    | 1.376    | 0.476 | 0.20     | 0.113    | 0.235    |         | 20.3     | 30.48  |
| # SAMP IN STATISTICS |      | 11               | 11       | 11       | 11       | 11    | 11       | 11       | 8        | 11      | 11       |        |
| % SAMP (EXCLUDED)    |      |                  |          |          |          |       |          |          | 27       |         |          |        |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91

U T M: 17 0465550.0 4753450.0 4

REGION: 01

DISTANCE: 184.748

| *=INTERIM TEST-NAME: |             | FWSADP           | FGPROJ               | ALKT                        | ASUT                             | BOD5                                 | CCNAUR                   | CDUT                       | CLIDUR                               | CLIDUR                                | COND25                                 |                                       |
|----------------------|-------------|------------------|----------------------|-----------------------------|----------------------------------|--------------------------------------|--------------------------|----------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|
|                      |             |                  |                      |                             |                                  | BOD<br>5 DAY                         | CYANIDE<br>AVAIL         |                            |                                      |                                       |  |                                       |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | TOT.DEM.<br>MG/L<br>AS O | UNF.REAC<br>MG/L<br>AS HCN | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C |
| 870121               | 0910        | 38412            | 0.30                 | 0101                        | 264.0                            | 0.001<                               | 1.62                     | 0.001<W                    | 0.0030<                              |                                       | 47.000                                 | 730.0                                 |
| 870212               | 1230        | 38439            | 0.30                 | 0101                        | 252.0                            | 0.001<                               | 2.30                     | 0.001<W                    | 0.0030<                              |                                       | 72.500                                 | 820.0                                 |
| 870317               | 1230        | 38466            | 0.30                 | 0101                        | 228.0                            | 0.001<                               | 1.41                     | 0.001<W                    | 0.0003<                              |                                       | 26.000                                 | 615.0                                 |
| 870421               | 1230        | 38493            | 0.30                 | 0101                        | 207.0                            | 0.001<                               | 2.77                     | 0.001<W                    | 0.0003<                              |                                       | 33.000                                 | 595.0                                 |
| 870520               | 1230        | 38520            | 0.30                 | 0101                        | 190.0                            | 0.001<                               | 2.68                     | 0.009                      | 0.0003<                              |                                       | 46.000                                 | 630.0                                 |
| 870617               | 1230        | 38547            | 0.30                 | 0101                        | 182.0                            | 0.001<                               | 2.35                     | 0.001<W                    | 0.0003<                              |                                       | 48.000                                 | 620.0                                 |
| 870722               | 1230        | 38574            | 0.30                 | 0101                        | 169.0                            | 0.001<                               | 2.29                     | 0.001<W                    | 0.0003<                              |                                       | 50.500                                 | 605.0                                 |
| 870818               | 1230        | 38601            | 0.30                 | 0101                        | 161.0                            | 0.001<                               | 2.18                     | 0.001<W                    | 0.0003<                              |                                       | 57.000                                 | 595.0                                 |
| 870923               | 0830        | 38628            | 0.30                 | 0101                        | 157.7                            | 0.001<                               | 1.60                     | 0.001<W                    | 0.0003<                              | 52.150                                |  | 625.0                                 |
| 871021               | 1230        | 38655            | 0.30                 | 0101                        | 158.8                            | 0.001<                               | 1.98                     | 0.001<W                    | 0.0003<                              | 54.380                                |  | 650.0                                 |
| 871118               | 0910        | 38682            | 0.30                 | 0101                        | 219.8                            | 0.001<                               | 3.46                     | 0.001<W                    | 0.0003<                              | 48.760                                |  | 610.0                                 |
| 871216               | 1230        | 38709            | 0.30                 | 0101                        | 193.0                            | 0.001<                               | 1.72                     | 0.001<W                    | 0.0003<                              | 44.000                                |  | 640.0                                 |
| MAXIMUM              |             | 0.30             |                      |                             | 264.0                            |                                      | 3.46                     | 0.009                      |                                      | 54.380                                | 72.500                                 | 820.0                                 |
| ARITH MEAN           |             | 0.30             |                      |                             | 198.5                            |                                      | 2.20                     | 0.002<A                    |                                      | 49.822                                | 47.500                                 | 644.6                                 |
| GEOM MEAN            |             |                  |                      |                             | 195.6                            |                                      | 2.13                     | 0.001<A                    |                                      | 49.665                                | 45.565                                 | 641.8                                 |
| MINIMUM              |             | 0.30             |                      |                             | 157.7                            |                                      | 1.41                     | 0.001                      |                                      | 44.000                                | 26.000                                 | 595.0                                 |
| STD DEV (GEOM *)     |             |                  |                      |                             | 36.2                             |                                      | 0.59                     | 0.002<A                    |                                      | 4.517                                 | 14.140                                 | 66.0                                  |
| # SAMP IN STATISTICS |             | 12               |                      |                             | 12                               |                                      | 12                       | 12                         |                                      | 4                                     | 8                                      | 12                                    |
| % SAMP (EXCLUDED)    |             |                  |                      |                             |                                  |                                      |                          |                            |                                      |                                       |  |                                       |

| *=INTERIM TEST-NAME: |             | CRUT                                  | CUUT                                | DO                                 | FCMF                            | FEUT                              | FSMF                            | FWSTRC | FWTEMP                 | NIUT                                | NNHTUR                            |       |
|----------------------|-------------|---------------------------------------|-------------------------------------|------------------------------------|---------------------------------|-----------------------------------|---------------------------------|--------|------------------------|-------------------------------------|-----------------------------------|-------|
|                      |             |                                       |                                     |                                    | FECAL                           |                                   | FECAL                           |        |                        |                                     | NH3-N                             |       |
| SAMPLE<br>DATE       | HOUR<br>LMT | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISOLVED<br>OXYGEN<br>MG/L<br>AS O | COLIFORM<br>MF<br>CNT<br>/100ML | IRON<br>UNF.TOT.<br>MG/L<br>AS FE | STREPCUS<br>MF<br>CNT<br>/100ML |        | WATER<br>TEMP<br>DEG.C | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | TOTAL<br>UNF.REAC<br>MG/L<br>AS N |       |
| 870121               | 0910        | 38412                                 | 0.005<                              | 0.003<                             | 12.0                            | 576                               | 0.150                           | 244    | 6                      | 1.5                                 | 0.015<                            | 0.100 |
| 870212               | 1230        | 38439                                 | 0.005<                              | 0.003<                             |                                 | 600>                              | 0.180                           | 600>   | 6                      | 1.5                                 | 0.015<                            | 0.425 |
| 870317               | 1230        | 38466                                 | 0.001                               | 0.002                              | 18.0                            | 1170                              | 0.200                           | 960    | 6                      | 3.0                                 | 0.003                             | 0.221 |
| 870421               | 1230        | 38493                                 | 0.001                               | 0.004                              | 15.0                            | 64                                | 0.200                           | 28     | 6                      | 20.0                                | 0.003                             | 0.100 |
| 870520               | 1230        | 38520                                 | 0.003                               | 0.004                              | 18.0                            | 20                                | 0.390                           | 12     | 6                      | 17.0                                | 0.007                             | 0.145 |
| 870617               | 1230        | 38547                                 | 0.001                               | 0.001                              | 17.0                            | 52                                | 0.033                           | 36     | 6                      | 25.0                                | 0.003                             | 0.010 |
| 870722               | 1230        | 38574                                 | 0.001                               | 0.003                              | 16.0                            | 80AID                             | 0.390                           | 100    | 6                      | 29.5                                | 0.006                             | 0.025 |
| 870818               | 1230        | 38601                                 | 0.004                               | 0.003                              | 16.0                            | 90AID                             | 0.360                           | 10AID  | 6                      | 25.0                                | 0.011                             | 0.010 |
| 870923               | 0830        | 38628                                 | 0.004                               | 0.003                              | 17.0                            | 270                               | 0.360                           | 10<    | 6                      | 17.0                                | 0.008                             | 0.055 |
| 871021               | 1230        | 38655                                 | 0.005                               | 0.003                              | 11.0                            |                                   | 0.150                           |        | 6                      | 9.0                                 | 0.010                             | 0.105 |
| 871118               | 0910        | 38682                                 | 0.004                               | 0.004                              | 12.0                            | 1500>                             | 0.370                           | 390    | 6                      | 7.5                                 | 0.008                             | 0.010 |
| 871216               | 1230        | 38709                                 | 0.004                               | 0.005                              | 12.0                            | 1900                              | 1.300                           | 1500>  | 6                      | 2.0                                 | 0.004                             | 0.068 |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91

U T M: 17 0465550.0 4753450.0 4

REGION: 01

DISTANCE: 184.748

| *INTERIM TEST-NAME: |                      | CRUT                                  | CUUT                                | DO                                 | FCHF<br>FECAL<br>COLIFORM | FEUT<br>IRON              | FSMF<br>FECAL<br>STREPCUS  | FWSTRC                   | FWTEMP                               | NIUT                                | NNHTUR<br>NH3-N<br>TOTAL |            |
|---------------------|----------------------|---------------------------------------|-------------------------------------|------------------------------------|---------------------------|---------------------------|----------------------------|--------------------------|--------------------------------------|-------------------------------------|--------------------------|------------|
| SAMPLE<br>DATE      | HOUR<br>YYMMDD LMT   | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISOLVED<br>OXYGEN<br>MG/L<br>AS O | MF<br>CNT<br>/100ML       | UNF.TOT.<br>MG/L<br>AS FE | MF<br>CNT<br>/100ML        | STREAM<br>COND.          | WATER<br>TEMP<br>DEG.C               | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | UNF.REAC<br>MG/L<br>AS N |            |
|                     | MAXIMUM              | 0.005                                 | 0.005                               | 18.0                               | 1900                      | 1.300                     | 960                        |                          | 29.5                                 | 0.011                               | 0.425                    |            |
|                     | ARITH MEAN           | 0.003                                 | 0.003                               | 14.9                               | 469                       | 0.340                     | 223                        |                          | 13.2                                 | 0.006                               | 0.106                    |            |
|                     | GEOM MEAN            |                                       |                                     | 14.7                               |                           | 0.247                     |                            |                          | 8.2                                  |                                     | 0.058                    |            |
|                     | MINIMUM              | 0.001                                 | 0.001                               | 11.0                               | 20                        | 0.033                     | 10                         |                          | 1.5                                  | 0.003                               | 0.010                    |            |
|                     | STD DEV (GEOM *)     |                                       |                                     | 2.7                                |                           | 0.325                     |                            |                          | 10.3                                 |                                     | 0.119                    |            |
|                     | # SAMP IN STATISTICS | 10                                    | 10                                  | 11                                 | 9                         | 12                        | 8                          |                          | 12                                   | 10                                  | 12                       |            |
|                     | % SAMP (EXCLUDED)    | 16                                    | 16                                  |                                    | 18                        |                           | 27                         |                          |                                      | 16                                  |                          |            |
| *INTERIM TEST-NAME: |                      | NN02UR                                | NN03UR                              | NNTKUR<br>K'DAHL N<br>TOTAL        | PBUT<br>LEAD              | PH                        | PHNOL<br>PHENOLS           | PP04UR                   | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG.         | P1PCBT<br>PCB<br>TOTAL   |            |
| SAMPLE<br>DATE      | HOUR<br>YYMMDD LMT   | NO2-N<br>UNF.REAC<br>MG/L<br>AS N     | NO3-N<br>UNF.REAC<br>MG/L<br>AS N   | UNF.REAC<br>MG/L<br>AS N           | UNF.TOT.<br>MG/L<br>AS PB | PH                        | UNF-REAC<br>UG/L<br>PHENOL | UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML                 | NO DATA/SM               |            |
| 870121              | 0910                 | 38412                                 | 0.150                               | 6.300                              | 0.630                     | 0.030<                    | 8.25                       | 1.000<                   | 0.058                                | 0.094                               | 8                        | 20<W       |
| 870212              | 1230                 | 38439                                 | 0.050                               | 4.800                              | 0.960                     | 0.030<                    | 8.14                       | 1.000<                   | 0.047                                | 0.096                               |                          | 20<W       |
| 870317              | 1230                 | 38466                                 | 0.030                               | 6.000                              | 0.840                     | 0.007                     | 8.23                       | 1.000<                   | 0.066                                | 0.109                               | 148                      | 20<W       |
| 870421              | 1230                 | 38493                                 | 0.100                               | 4.600                              | 0.840                     | 0.003<                    | 8.21                       | 1.000<                   | 0.022                                | 0.087                               | 4<                       | 20<W       |
| 870520              | 1230                 | 38520                                 | 0.360                               | 0.360                              | 0.960                     | 0.003<                    | 8.07                       | 1.000                    | 0.121                                | 0.150                               | 4<                       | 20<W       |
| 870617              | 1230                 | 38547                                 | 0.110                               | 3.400                              | 0.980                     | 0.003<                    | 8.21                       | 1.000<                   | 0.049                                | 0.116                               | 4<                       | 20<W       |
| 870722              | 1230                 | 38574                                 | 0.080                               | 2.800                              | 1.240                     | 0.003<                    | 8.42                       | 1.000                    | 0.033                                | 0.114                               | 4                        | NO DATA/SM |
| 870818              | 1230                 | 38601                                 | 0.040                               | 0.100<                             | 1.240                     | 0.003<                    | 8.22                       | 1.000<                   | 0.061                                | 0.186                               | 4                        |            |
| 870923              | 0830                 | 38628                                 | 0.070                               | 3.400                              | 0.800                     | 0.003<                    | 7.83                       | 1.000<                   | 0.176                                | 0.235                               | 4<                       | 20<W       |
| 871021              | 1230                 | 38655                                 | 0.100                               | 3.500                              | 0.780                     | 0.003<                    | 7.98                       | 1.000<                   | 0.078                                | 0.109                               |                          | 20<W       |
| 871118              | 0910                 | 38682                                 | 0.070                               | 5.000                              | 1.180                     | 0.004                     | 8.14                       | 1.000                    | 0.015                                | 0.162                               | 4                        | 20<W       |
| 871216              | 1230                 | 38709                                 | 0.040                               | 10.100                             | 1.450                     | 0.007                     | 7.68                       | 0.060                    | 0.175                                | 0.175                               | 8                        | 20<W       |
|                     | MAXIMUM              | 0.360                                 | 10.100                              | 1.450                              | 0.007                     | 8.42                      | 1.000                      | 0.176                    | 0.235                                | 148                                 | 20                       |            |
|                     | ARITH MEAN           | 0.100                                 | 4.569                               | 0.992                              | 0.006                     | 8.11                      | 1.000                      | 0.065                    | 0.136                                | 29                                  | 20<A                     |            |
|                     | GEOM MEAN            | 0.079                                 |                                     | 0.966                              |                           | 8.11                      |                            | 0.054                    | 0.130                                |                                     | 20<A                     |            |
|                     | MINIMUM              | 0.030                                 | 0.360                               | 0.630                              | 0.004                     | 7.68                      | 1.000                      | 0.015                    | 0.087                                | 4                                   | 20                       |            |
|                     | STD DEV (GEOM *)     | 0.089                                 |                                     | 0.239                              |                           | 0.20                      |                            | 0.044                    | 0.046                                |                                     | 0<A                      |            |
|                     | # SAMP IN STATISTICS | 12                                    | 11                                  | 12                                 | 3                         | 12                        | 3                          | 12                       | 12                                   | 6                                   | 10                       |            |
|                     | % SAMP (EXCLUDED)    |                                       | 8                                   |                                    | 75                        |                           | 72                         |                          |                                      | 40                                  |                          |            |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91 U T M: 17 0465550.0 4753450.0 4 REGION: 01 DISTANCE: 184.748

| *=INTERIM TEST-NAME: |      | RSP     | TURB     | X3245    | ZNUT       |         |
|----------------------|------|---------|----------|----------|------------|---------|
|                      |      |         |          | 2,4,5    | ZINC       |         |
| SAMPLE               |      | RESIDUE |          | TRCHLORO | UNF.TOT.   |         |
| DATE                 | HOUR | PARTIC. | TURB'ITY | PHENOL   | MG/L       |         |
| YYMMDD               | LMT  | MG/L    | FTU      | NG/L     | AS ZN      |         |
| 870121               | 0910 | 38412   | 6.0      | 3.80     | 100<W      | 0.009   |
| 870212               | 1230 | 38439   | 6.9      | 5.30     | 100<W      | 0.016   |
| 870317               | 1230 | 38466   | 5.7      | 5.10     | 100<W      | 0.039   |
| 870421               | 1230 | 38493   | 8.8      | 5.10     |            | 0.036   |
| 870520               | 1230 | 38520   | 5.0<     | 4.30     | 100<W      | 0.009   |
| 870617               | 1230 | 38547   | 5.0<     | 4.40     | 100<W      | 0.006   |
| 870722               | 1230 | 38574   | 20.0     | 5.50     | NO DATA IS | 0.001<W |
| 870818               | 1230 | 38601   | 16.6     | 12.60    |            | 0.010   |
| 870923               | 0830 | 38628   | 8.1      | 8.20     | 100<W      | 0.008   |
| 871021               | 1230 | 38655   | 5.0<     | 3.40     | 100<W      | 0.015   |
| 871118               | 0910 | 38682   | 20.4     | 15.40    | 100<W      | 0.008   |
| 871216               | 1230 | 38709   | 47.0     | 33.00    | 100<W      | 0.018   |
| MAXIMUM              |      | 47.0    | 33.00    | 100      |            | 0.039   |
| ARITH MEAN           |      | 15.5    | 8.84     | 100<A    |            | 0.015<A |
| GEOM MEAN            |      |         | 6.80     | 100<A    |            | 0.011<A |
| MINIMUM              |      | 5.7     | 3.40     | 100      |            | 0.001   |
| STD DEV (GEOM *)     |      |         | 8.47     | 0<A      |            | 0.012<A |
| # SAMP IN STATISTICS |      | 9       | 12       | 9        |            | 12      |
| % SAMP (EXCLUDED)    |      | 25      |          |          |            |         |

## 1987 WATER QUALITY DATA REGION 1

77

B.O.W./ SITE: MC GREGOR CREEK  
 SAMPLE POINT: AT HARMICH-HOWARD TOWNLINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 26 43.87 LONG: 081 59 07.90 U T M: 17 0418950.0 4699500.0 4 REGION: 01 DISTANCE: 50.693

| *=INTERIM            |      | TEST-NAME: | FWSADP   | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |            |          |          |          | BOD      |          |          |          |          |          |          |
|                      |      |            |          |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
|                      |      |            |          |          |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |
|                      |      |            |          |          |          | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
|                      |      |            |          |          |          | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
|                      |      |            |          |          |          |          |          |          |          |          |          | /100ML   |
| SAMPLE               | DATE | TIME       | SAMPLE   | PROJECT  | ALK      | TOT.DEM. | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
| DATE                 | TIME |            | DEPTH    | SUB-PROJ | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
| YYMMDD               | LMT  |            | M        | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
| YYMMDD               | LMT  | NUMBER     |          |          |          |          |          |          |          |          |          | /100ML   |
| 870126               | 1407 | 39406      | 0.30     | 0101     | 270.0    | 2.45     |          | 49.500   | 910.0    |          | 14.0     | 8100     |
| 870223               | 1256 | 39420      | 0.30     | 0101     | 176.0    | 2.52     |          | 26.000   | 585.0    | 0.004    | 14.5     | 450      |
| 870323               | 1344 | 39434      | 0.30     | 0101     | 190.0    | 1.44     |          | 37.000   | 645.0    | 0.004    | 16.5     | 52       |
| 870427               | 1319 | 39450      | 0.30     | 0101     | 189.0    | 4.09     |          | 17.500   | 710.0    | 0.004    | 18.5     | 100      |
| 870525               | 1339 | 39466      | 0.30     | 0101     | 197.0    | 4.55     |          | 53.000   | 785.0    | 0.008    | 18.0     | 4<       |
| 870622               | 1248 | 39481      | 0.30     | 0101     | 174.0    | 4.66     |          | 52.000   | 670.0    | 0.006    | 13.0     |          |
| 870727               | 1240 | 39494      | 0.30     | 0101     | 159.0    | 2.72     |          | 87.000   | 755.0    | 0.008    | 14.5     | 300      |
| 870824               | 1304 | 39508      | 0.30     | 0101     | 226.0    | 0.32     |          | 44.500   | 710.0    | 0.007    | 11.5     | 5800     |
| 870928               | 1332 | 39522      | 0.30     | 0101     | 259.8    | 2.16     | 38.580   |          | 860.0    | 0.008    | 11.5     | 1000     |
| 871026               | 1302 | 39536      | 0.30     | 0101     | 253.9    | 0.90     | 49.150   |          | 865.0    | 0.007    | 13.5     | 2300     |
| 871124               | 1303 | 39552      | 0.30     | 0101     | 250.8    | 2.90     | 53.210   |          | 890.0    | 0.002    |          | 1300     |
| MAXIMUM              |      |            | 0.30     |          | 270.0    | 4.66     | 53.210   | 87.000   | 910.0    | 0.008    | 18.5     | 8100     |
| ARITH MEAN           |      |            | 0.30     |          | 213.2    | 2.61     | 46.980   | 45.812   | 762.3    | 0.006    | 14.5     | 2156     |
| GEOM MEAN            |      |            |          |          | 209.9    | 2.11     | 46.554   | 41.555   | 755.1    | 0.005    | 14.4     |          |
| MINIMUM              |      |            | 0.30     |          | 159.0    | 0.32     | 38.580   | 17.500   | 585.0    | 0.002    | 11.5     | 52       |
| STD DEV (GEOM *)     |      |            |          |          | 39.8     | 1.42     | 7.553    | 20.954   | 108.6    | 0.002    | 2.4      |          |
| # SAMP IN STATISTICS |      |            | 11       |          | 11       | 11       | 3        | 8        | 11       | 10       | 10       | 9        |
| % SAMP (EXCLUDED)    |      |            |          |          |          |          |          |          |          |          |          | 10       |
| *=INTERIM            |      | TEST-NAME: | FSMF     | FWSTRC   | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      |            | FECAL    |          |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      |            | STREPCUS |          |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
|                      |      |            | MF       |          |          | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
|                      |      |            | CNT      | STREAM   | WATER    | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |
|                      |      |            | /100ML   | COND.    | TEMP     | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |
|                      |      |            |          |          | DEG.C    |          |          |          |          |          |          |          |
| 870126               | 1407 | 39406      | 1030     | 4        | 0.5      | 1.200    | 0.030    | 7.100    | 2.380    |          | 7.80     | 0.049    |
| 870223               | 1256 | 39420      | 610      | 4        | 0.5      | 0.200    | 0.190    | 5.000    | 1.200    | 0.003<   | 7.84     | 0.043    |
| 870323               | 1344 | 39434      | 16       | 6        | 10.0     | 0.005    | 0.020    | 6.000    | 0.450    | 0.003<   | 7.98     | 0.006    |
| 870427               | 1319 | 39450      | 10<      | 6 7      | 10.0     | 0.070    | 0.070    | 4.300    | 0.980    | 0.003<   | 8.00     | 0.005    |
| 870525               | 1339 | 39466      | 4<       | 6 9      | 17.0     | 0.165    | 0.170    | 3.000    | 1.580    | 0.003<   | 8.47     | 0.134    |
| 870622               | 1248 | 39481      |          | 9        | 23.5     | 0.115    | 0.120    | 1.000    | 1.340    | 0.003<   | 8.29     | 0.095    |
| 870727               | 1240 | 39494      | 100      | 6 9      | 28.0     | 0.085    | 0.040    | 0.100    | 0.920    | 0.003<   | 8.33     | 0.053    |
| 870824               | 1304 | 39508      | 1300     | 6        | 17.0     | 0.065    | 0.100    | 4.000    | 1.060    | 0.003<   | 8.26     | 0.080    |
| 870928               | 1332 | 39522      | 570      | 6        | 18.0     | 0.035    | 0.090    | 4.800    | 0.940    | 0.003<   | 8.04     | 0.027    |
| 871026               | 1302 | 39536      | 2900     | 6        | 8.0      | 0.013    | 0.010    | 9.600    | 0.880    | 0.003<   | 8.02     | 0.025    |
| 871124               | 1303 | 39552      | 600AID   | 6        | 5.0      | 0.516    | 0.040    | 4.800    | 1.250    | 0.003<   | 8.19     | 0.196    |

( C O N T D )

B.O.W./ SITE: MC GREGOR CREEK  
 SAMPLE POINT: AT HARWICH-HOWARD TOWNLINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 26 43.87 LONG: 081 59 07.90

U T M: 17 0418950.0 4699500.0 4

REGION: 01

DISTANCE: 50.693

| *INTERIM TEST-NAME:  |             | FSMF<br>FECAL<br>STREPCUS<br>MF | FWSTRC        | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PP04UR<br>P04<br>UNF.REAC |                          |
|----------------------|-------------|---------------------------------|---------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER                | CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                        | UNF.REAC<br>MG/L<br>AS P |
| MAXIMUM              |             | 2900                            |               |                 | 28.0                     | 1.200                    | 0.190                    | 9.600                       | 2.380                    |                           | 8.47                      | 0.196                    |
| ARITH MEAN           |             | 891                             |               |                 | 12.5                     | 0.224                    | 0.080                    | 4.518                       | 1.180                    |                           | 8.11                      | 0.065                    |
| GEOM MEAN            |             |                                 |               |                 | 7.4                      | 0.087                    | 0.058                    | 3.088                       | 1.094                    |                           | 8.11                      | 0.040                    |
| MINIMUM              |             | 16                              |               |                 | 0.5                      | 0.005                    | 0.010                    | 0.100                       | 0.450                    |                           | 7.80                      | 0.005                    |
| STD DEV (GEOM *)     |             |                                 |               |                 | 9.0                      | 0.354                    | 0.060                    | 2.638                       | 0.493                    |                           | 0.21                      | 0.058                    |
| # SAMP IN STATISTICS |             | 8                               |               |                 | 11                       | 11                       | 11                       | 11                          | 11                       |                           | 11                        | 11                       |
| % SAMP (EXCLUDED)    |             | 20                              |               |                 |                          |                          |                          |                             |                          |                           |                           |                          |

| *INTERIM TEST-NAME:  |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|--|--|-----------------------------------|-------------------------|---|
| 870126               | 1407 | 39406  | 0.118  | 4C                                | 39.4                    | 41.00                                     |
| 870223               | 1256 | 39420  | 0.175  | 68                                | 39.3                    | 62.00                                     |
| 870323               | 1344 | 39434  | 0.023  | 4<                                | 32.3                    | 43.00                                     |
| 870427               | 1319 | 39450  | 0.082  | 4<                                | 14.5                    | 22.00                                     |
| 870525               | 1339 | 39466  | 0.312  | 4<                                | 62.0                    | 51.00                                     |
| 870622               | 1248 | 39481  | 0.260  |                                   | 73.5                    | 90.00                                     |
| 870727               | 1240 | 39494  | 0.194  | 4<                                | 83.8                    | 83.00                                     |
| 870824               | 1304 | 39508  | 0.132  | 92                                | 42.8                    | 68.00                                     |
| 870928               | 1332 | 39522  | 0.126  | 4<                                | 60.5                    | 92.00                                     |
| 871026               | 1302 | 39536  | 0.222  | 12                                | 46.8                    | 53.00                                     |
| 871124               | 1303 | 39552  | 0.225  | 4<                                | 29.3                    | 32.00                                     |
| MAXIMUM              |      | 0.312  | 92   | 83.8                              | 92.00                   | 0.018                                     |
| ARITH MEAN           |      | 0.170  | 44   | 47.7                              | 57.91                   | 0.011                                     |
| GEOM MEAN            |      | 0.143  |  | 43.2                              | 53.23                   | 0.011                                     |
| MINIMUM              |      | 0.023  | 4  | 14.5                              | 22.00                   | 0.005                                     |
| STD DEV (GEOM *)     |      | 0.084  |  | 20.4                              | 23.41                   | 0.004                                     |
| # SAMP IN STATISTICS |      | 11   | 4  | 11                                | 11                      | 10  |
| % SAMP (EXCLUDED)    |      |  | 60   |                                   |                         |   |

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 28  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE015

STATION ID: 04-0013-050-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 05 46.43 LONG: 081 10 08.23 U T M: 17 0486250.0 4771300.0 4 REGION: 01 DISTANCE: 229.003

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC | FWTEMP |      |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|--------|------|
|                      |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        |        |      |
| SAMPLE               |      | SAMPLE               | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | STREAM |        | WATER  |      |
| DATE                 | HOUR | DEPTH                | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | FLOW   | COND.  | TEMP   |      |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | M3     |        | DEG.C  |      |
|                      |      |                      |          |          |          |          | /100ML   | /100ML   | /S     |        |        |      |
| 870120               | 1200 | 38409                | 0.30     | 0101     |          | 24.500   | 680.0    | 136      | 8      | 8.800  | 6      | 0.5  |
| 870211               | 1315 | 38436                | 0.30     | 0101     |          | 34.000   | 685.0    | 64       | 4<     | 5.000  | 6      | 0.5  |
| 870316               | 1315 | 38463                | 0.30     | 0101     |          | 19.500   | 590.0    | 8        | 4<     | 20.600 | 6      | 3.0  |
| 870420               | 1315 | 38490                | 0.30     | 0101     |          | 20.500   | 535.0    | 8        | 4      | 10.600 | 6      | 19.0 |
| 870519               | 1315 | 38517                | 0.30     | 0101     |          | 29.000   | 580.0    | 20       | 4      | 3.060  |        |      |
| 870616               | 1315 | 38544                | 0.30     | 0101     |          | 35.500   | 500.0    | 60       | 24     | 2.190  | 6      | 25.0 |
| 870721               | 1315 | 38571                | 0.30     | 0101     |          | 30.500   | 468.0    | 1300     | 1000   | 6.120  | 9      | 27.0 |
| 870817               | 1315 | 38598                | 0.30     | 0101     |          | 35.500   | 447.0    | 70AID    | 30AID  | 1.850  | 6      | 26.0 |
| 870921               | 1325 | 38625                | 0.30     | 0101     | 40.640   | 505.0    | 150      | 60AID    | 2.280  | 6      | 17.5   |      |
| 871020               | 1315 | 38652                | 0.30     | 0101     | 35.600   | 505.0    | 40AID    | 10AID    | 2.100  | 9      | 9.5    |      |
| 871116               | 1200 | 38679                | 0.30     | 0101     | 33.070   | 590.0    | 40AID    | 10AID    | 6.430  | 6      | 6.5    |      |
| 871214               | 1315 | 38706                | 0.30     | 0101     | 29.000   | 635.0    | 360      | 210      | 21.200 | 6      | 2.5    |      |
|                      |      | MAXIMUM              | 0.30     |          | 40.640   | 35.500   | 685.0    | 1300     | 1000   | 21.200 |        | 27.0 |
|                      |      | ARITH MEAN           | 0.30     |          | 34.577   | 28.625   | 560.0    | 188      | 136    | 7.519  |        | 12.5 |
|                      |      | GEOM MEAN            |          |          | 34.321   | 27.938   | 554.9    | 65       |        | 5.286  |        | 6.3  |
|                      |      | MINIMUM              | 0.30     |          | 29.000   | 19.500   | 447.0    | 8        | 4      | 1.850  |        | 0.5  |
|                      |      | STD DEV (GEOM *)     |          |          | 4.871    | 6.474    | 79.4     | 4*       |        | 6.850  |        | 10.7 |
|                      |      | # SAMP IN STATISTICS | 12       |          | 4        | 8        | 12       | 12       | 10     | 12     |        | 11   |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          | 16     |        |        |      |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     |      |
|----------------------|------|----------|----------|----------|----------|-------|----------|----------|----------|---------|------|
|                      |      | NH3-N    |          |          | K'DAHL N |       |          |          | PSEUDOMN |         |      |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |       | P04      | PHOSPHOR | AERUG.   |         |      |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | MF       | RESIDUE |      |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | CNT      | PARTIC. |      |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   | MG/L    |      |
| 870120               | 1200 | 38409    | 0.035    | 0.010    | 5.500    | 0.490 | 8.23     | 0.005    | 0.020    | 4<      | 5.0< |
| 870211               | 1315 | 38436    | 0.168    | 0.040    | 4.300    | 0.720 | 8.01     | 0.017    | 0.034    | 4<      | 0.9  |
| 870316               | 1315 | 38463    | 0.075    | 0.020    | 5.400    | 0.720 | 8.24     | 0.041    | 0.071    | 4<      | 2.8  |
| 870420               | 1315 | 38490    | 0.005    | 0.040    | 4.000    | 0.710 | 8.45     | 0.005    | 0.072    | 4<      | 5.0< |
| 870519               | 1315 | 38517    | 0.015    | 0.020    | 0.020    | 0.670 | 8.39     | 0.002    | 0.025    | 4<      | 5.0< |
| 870616               | 1315 | 38544    | 0.005<   | 0.020    | 1.000    | 1.060 | 8.41     | 0.016    | 0.132    | 4<      | 5.0< |
| 870721               | 1315 | 38571    | 0.015    | 0.020    | 0.100    | 1.500 | 8.34     | 0.026    | 0.178    | 4       | 54.8 |
| 870817               | 1315 | 38598    | 0.010    | 0.010    | 0.200    | 0.950 | 8.39     | 0.001<   | 0.062    | 4<      | 16.8 |
| 870921               | 1325 | 38625    | 0.005<   | 0.010    | 0.500    | 0.960 | 8.37     | 0.022    | 0.096    | 4<      | 20.7 |
| 871020               | 1315 | 38652    | 0.005<   | 0.010<   | 0.900    | 0.670 | 8.14     | 0.005    | 0.047    | 4<      | 8.3  |
| 871116               | 1200 | 38679    | 0.005<   | 0.010<   | 6.700    | 0.620 | 8.38     | 0.004    | 0.030    | 4<      | 11.4 |
| 871214               | 1315 | 38706    | 0.035    | 0.010    | 10.800   | 0.670 | 8.22     | 0.005    | 0.057    | 4       | 5.0< |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 28  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE015

STATION ID: 04-0013-050-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 05 46.43 LONG: 081 10 08.23

U T M: 17 0486250.0 4771300.0 4

REGION: 01

DISTANCE: 229.003

| *=INTERIM TEST-NAME: |      | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC | PH   | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |
|----------------------|------|--------------------------|-----------------------------|-----------------------------|---|------|---------------------------|------------------------------|--|-----------------------------------|
| DATE                 | HOUR | SAMPLE<br>MG/L           | SAMPLE<br>MG/L              | SAMPLE<br>MG/L              | SAMPLE<br>MG/L                          | PH   | AS P                      | AS P                         |  |                                   |
| YYMMDD               | LMT  | NUMBER                   | AS N                        | AS N                        | AS N                                    |      |                           |                              |  |                                   |
| MAXIMUM              |      | 0.168                    | 0.040                       | 10.800                      | 1.500                                   | 8.45 | 0.041                     | 0.178                        | 4  | 54.8                              |
| ARITH MEAN           |      | 0.045                    | 0.020                       | 3.285                       | 0.812                                   | 8.30 | 0.013                     | 0.069                        | 4  | 16.5                              |
| GEOM MEAN            |      |                          |                             | 1.171                       | 0.777                                   | 8.30 |                           | 0.056                        |  |                                   |
| MINIMUM              |      | 0.005                    | 0.010                       | 0.020                       | 0.490                                   | 8.01 | 0.002                     | 0.020                        | 4  | 0.9                               |
| STD DEV (GEOM *)     |      |                          |                             | 3.412                       | 0.270                                   | 0.13 |                           | 0.047                        |  |                                   |
| # SAMP IN STATISTICS |      | 8                        | 10                          | 12                          | 12                                      | 12   | 11                        | 12                           | 2  | 7                                 |
| % SAMP (EXCLUDED)    |      | 33                       | 16                          |                             |   |      | 8                         |                              | 83   | 41                                |



## 1987 WATER QUALITY DATA REGION 1

81

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 4  
 STATION TYPE: RIVER

STATION ID: 04-0013-051-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 07.81 LONG: 081 09 00.76 U T M: 17 0487750.0 4757150.0 4 REGION: 01 DISTANCE: 215.002

| *=INTERIM            |      | TEST-NAME: | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     | FEUT     | FSMF     |
|----------------------|------|------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |            |        |          | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    | IRON     | STREPCUS |
| SAMPLE               |      | SAMPLE     | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM | UNF.TOT. | STREPCUS |
| DATE                 | HR   | NUMBER     | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       | MG/L     | MF       |
| YYMMDD               | LMT  |            | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      | AS FE    | CNT      |
|                      |      |            |        |          |          |          |          |          |          | /100ML   |          | /100ML   |
| 870120               | 1245 | 38411      | 0.30   | 0101     |          | 43.500   | 740.0    | 0.003<   |          | 124      | 0.130<   | 64       |
| 870211               | 1200 | 38438      | 0.30   | 0101     |          | 60.000   | 810.0    | 0.003<   | 17.0     | 8        | 0.140    | 4<       |
| 870316               | 1400 | 38465      | 0.30   | 0101     |          | 29.000   | 640.0    | 0.003<   |          | 4        | 0.240    | 8        |
| 870420               | 1400 | 38492      | 0.30   | 0101     |          | 35.500   | 625.0    | 0.001<W  |          | 16       | 0.095    | 4<       |
| 870519               | 1400 | 38519      | 0.30   | 0101     |          | 49.500   | 730.0    | 0.003<   | 16.0     | 20       | 0.100    | 8        |
| 870616               | 1400 | 38546      | 0.30   | 0101     |          | 46.500   | 620.0    | 0.003    |          | 52       | 1.000    | 20       |
| 870721               | 1400 | 38573      | 0.30   | 0101     |          | 48.500   | 670.0    | 0.002    | 18.0     | 120      | 0.300    | 56       |
| 870817               | 1400 | 38600      | 0.30   | 0101     |          | 57.500   | 645.0    | 0.001    | 17.0     | 150      | 0.230    | 110      |
| 870921               | 1415 | 38627      | 0.30   | 0101     | 54.690   |          | 695.0    | 0.001    | 17.0     | 190      | 0.088    | 130      |
| 871020               | 1400 | 38654      | 0.30   | 0101     | 54.960   |          | 715.0    | 0.003    | 14.0     | 40AID    | 0.110    | 10AID    |
| 871116               | 1245 | 38681      | 0.30   | 0101     | 48.570   |          | 745.0    | 0.001    | 16.0     | 10AID    | 0.085    | 10<      |
| 871214               | 1400 | 38708      | 0.30   | 0101     | 42.380   |          | 730.0    | 0.006    | 12.0     | 250      | 0.310    | 290      |
| MAXIMUM              |      |            | 0.30   |          | 54.960   | 60.000   | 810.0    | 0.006    | 18.0     | 250      | 1.000    | 290      |
| ARITH MEAN           |      |            | 0.30   |          | 50.150   | 46.250   | 697.1    | 0.002<A  | 15.9     | 82       | 0.245    | 77       |
| GEOM MEAN            |      |            |        |          | 49.874   | 45.143   | 694.9    |          | 15.8     | 41       |          |          |
| MINIMUM              |      |            | 0.30   |          | 42.380   | 29.000   | 620.0    | 0.001    | 12.0     | 4        | 0.085    | 8        |
| STD DEV (GEOM *)     |      |            |        |          | 5.961    | 10.365   | 58.2     |          | 2.0      | 4*       |          |          |
| # SAMP IN STATISTICS |      |            | 12     |          | 4        | 8        | 12       | 8        | 8        | 12       | 11       | 9        |
| % SAMP (EXCLUDED)    |      |            |        |          |          |          |          | 33       |          |          | 8        | 25       |
| *=INTERIM            |      | TEST-NAME: | FWSTRC | FWTEMP   | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH       | PP04UR   | PPUT     |
|                      |      |            |        |          | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |          | P04      | PHOSPHOR |
| SAMPLE               |      | SAMPLE     | STREAM | WATER    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC | UNF.TOT. |
| DATE                 | HR   | NUMBER     | COND.  | TEMP     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     | MG/L     |
| YYMMDD               | LMT  |            |        | DEG.C    | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     | AS P     |
| 870120               | 1245 | 38411      | 6      | 0.5      | 0.085    | 0.030    | 7.700    | 0.550    | 0.030    | 8.27     | 0.025    | 0.055    |
| 870211               | 1200 | 38438      | 6      | 0.5      | 0.055    | 0.040    | 5.500    | 0.530    | 0.030<   | 8.14     | 0.015    | 0.033    |
| 870316               | 1400 | 38465      | 6      | 3.0      | 0.110    | 0.030    | 6.400    | 0.700    | 0.030<   | 8.23     | 0.057    | 0.088    |
| 870420               | 1400 | 38492      | 6      | 18.5     | 0.080    | 0.040    | 5.200    | 0.780    | 0.003<   | 8.43     | 0.010    | 0.047    |
| 870519               | 1400 | 38519      |        | 17.5     | 0.105    | 0.070    | 0.070    | 0.750    | 0.030<   | 8.37     | 0.004    | 0.043    |
| 870616               | 1400 | 38546      | 6      | 26.5     | 0.005    | 0.030    | 3.200    | 0.770    | 0.003<   | 8.57     | 0.001<   | 0.066    |
| 870721               | 1400 | 38573      | 6      | 27.0     | 0.015    | 0.020    | 0.100    | 0.980    | 0.003<   | 8.54     | 0.019    | 0.092    |
| 870817               | 1400 | 38600      | 9      | 27.5     | 0.005<   | 0.020    | 1.600    | 0.870    | 0.008    | 8.35     | 0.001<   | 0.063    |
| 870921               | 1415 | 38627      | 6      | 17.0     | 0.005    | 0.030    | 2.600    | 0.590    | 0.003<   | 8.29     | 0.036    | 0.059    |
| 871020               | 1400 | 38654      | 6      | 9.5      | 0.005<   | 0.010    | 2.900    | 0.590    | 0.006    | 8.03     | 0.006    | 0.035    |
| 871116               | 1245 | 38681      | 6      | 7.0      | 0.005<   | 0.040    | 4.200    | 0.630    | 0.003<   | 8.34     | 0.004    | 0.040    |
| 871214               | 1400 | 38708      | 6      | 3.0      | 0.056    | 0.050    | 10.800   | 0.780    | 0.003<   | 8.15     | 0.033    | 0.081    |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 4  
 STATION TYPE: RIVER

STATION ID: 04-0013-051-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 07.81 LONG: 081 09 00.76 U T M: 17 0487750.0 4757150.0 4 REGION: 01 DISTANCE: 215.002

| *=INTERIM TEST-NAME:     |             | FWSTRC           | FWTEMP                   | NNHTUR<br>NH3-N<br>TOTAL      | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT.  | PH   | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. |
|--------------------------|-------------|------------------|--------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|------|---------------------------|------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND.<br>DEG.C | WATER<br>TEMP<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH   | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     |
| MAXIMUM                  |             |                  | 27.5                     | 0.110                         | 0.070                       | 10.800                      | 0.980                       | 0.030                     | 8.57 | 0.057                     | 0.092                        |
| ARITH MEAN               |             |                  | 13.1                     | 0.057                         | 0.034                       | 4.189                       | 0.710                       | 0.015                     | 8.31 | 0.021                     | 0.058                        |
| GEOM MEAN                |             |                  | 7.1                      |                               | 0.031                       | 2.255                       | 0.698                       |                           | 8.31 |                           | 0.055                        |
| MINIMUM                  |             |                  | 0.5                      | 0.005                         | 0.010                       | 0.070                       | 0.530                       | 0.006                     | 8.03 | 0.004                     | 0.033                        |
| STD DEV (GEOM *)         |             |                  | 10.5                     |                               | 0.016                       | 3.151                       | 0.137                       |                           | 0.16 |                           | 0.020                        |
| # SAMP IN STATISTICS     |             |                  | 12                       | 9                             | 12                          | 12                          | 12                          | 3                         | 12   | 10                        | 12                           |
| % SAMP (EXCLUDED)        |             |                  |                          | 25                            |                             |                             |                             | 75                        |      | 16                        |                              |

| *=INTERIM TEST-NAME:     |             | PSAMF<br>PSEUDOMN<br>AERUG. | RSP                        | TURB            | ZNUT                              |
|--------------------------|-------------|-----------------------------|----------------------------|-----------------|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER            | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
| 870120                   | 1245        | 38411                       | 4<                         | 5.0<            | 3.50                              |
| 870211                   | 1200        | 38438                       | 4<                         | 3.4             | 2.80                              |
| 870316                   | 1400        | 38465                       | 4<                         | 5.6             | 5.70                              |
| 870420                   | 1400        | 38492                       | 4<                         | 5.0<            | 4.00                              |
| 870519                   | 1400        | 38519                       | 4                          | 5.0             | 2.30                              |
| 870616                   | 1400        | 38546                       | 4<                         | 11.3            | 7.00                              |
| 870721                   | 1400        | 38573                       | 4                          | 15.8            | 9.90                              |
| 870817                   | 1400        | 38600                       | 4<                         | 12.8            | 5.80                              |
| 870921                   | 1415        | 38627                       | 4                          | 3.1             | 4.80                              |
| 871020                   | 1400        | 38654                       | 4<                         | 4.3             | 2.90                              |
| 871116                   | 1245        | 38681                       | 4                          | 7.2             | 3.40                              |
| 871214                   | 1400        | 38708                       | 4                          | 12.6            | 8.20                              |
| MAXIMUM                  |             | 4                           | 15.8                       | 9.90            | 0.056                             |
| ARITH MEAN               |             | 4                           | 8.1                        | 5.02            | 0.019                             |
| GEOM MEAN                |             |                             |                            | 4.56            | 0.010                             |
| MINIMUM                  |             | 4                           | 3.1                        | 2.30            | 0.003                             |
| STD DEV (GEOM *)         |             |                             |                            | 2.37            | 0.022                             |
| # SAMP IN STATISTICS     |             | 5                           | 10                         | 12              | 12                                |
| % SAMP (EXCLUDED)        |             | 58                          | 16                         |                 |                                   |

B.O.W./ SITE: BIG SWAMP DRAIN  
 SAMPLE POINT: AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER  
 STATION TYPE: RIVER

STATION ID: 04-0013-052-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 33.24 LONG: 081 03 18.67

U T M: 17 0495500.0 4757925.0 4

REGION: 01

DISTANCE: 224.819

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |          |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |          |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |          |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                      |      |          |        | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                      |      |          |        | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| SAMPLE               | DATE | DATE     | DEPTH  | PROJECT  |          |          |          |          |          |          |          |
| DATE                 | HR   | HR       | HR     | SUB-PROJ |          |          |          |          |          |          |          |
| YMMDD                | LMT  | LMT      | M      | CODE     |          |          |          |          |          |          |          |
| 870121               | 1410 | 38426    | 0.30   | 0101     | 213.0    | 0.70     | 59.000   | 620.0    | 0.002    | 16.0     | 130      |
| 870212               | 1130 | 38453    | 0.30   | 0101     | 219.0    | 0.88     | 75.000   | 710.0    | 0.001<W  |          | 600>     |
| 870317               | 1130 | 38480    | 0.30   | 0101     | 198.0    | 0.29     | 46.500   | 585.0    | 0.001<W  | 15.0     | 172      |
| 870421               | 1130 | 38507    | 0.30   | 0101     | 213.0    | 0.86     | 52.500   | 625.0    | 0.003    | 17.0     | 104      |
| 870520               | 1130 | 38534    | 0.30   | 0101     | 219.0    | 1.10     | 57.000   | 690.0    | 0.003    | 14.0     | 196      |
| 870617               | 1130 | 38561    | 0.30   | 0101     | 216.0    | 1.45     | 43.000   | 610.0    | 0.003    | 14.0     | 276      |
| 870722               | 1130 | 38588    | 0.30   | 0101     | 185.0    | 1.56     | 35.500   | 530.0    | 0.001    | 17.0     | 40AID    |
| 870818               | 1130 | 38615    | 0.30   | 0101     | 215.0    | 0.60     | 56.500   | 630.0    |          | 17.0     | 600>     |
| 870923               | 1505 | 38642    | 0.30   | 0101     | 221.3    | 0.98     | 92.510   | 765.0    | 0.003    | 13.0     | 510      |
| 871021               | 1130 | 38669    | 0.30   | 0101     | 219.6    | 0.76     | 78.870   | 795.0    | 0.003    | 11.0     | 150      |
| 871118               | 1410 | 38696    | 0.30   | 0101     | 202.8    | 0.98     | 83.230   | 745.0    | 0.003    | 11.0     | 40       |
| 871216               | 1130 | 38723    | 0.30   | 0101     | 127.7    | 0.58     | 72.900   | 610.0    | 0.001<   | 11.0     | 600>     |
| MAXIMUM              |      | 0.30     |        |          | 221.3    | 1.56     | 92.510   | 795.0    | 0.003    | 17.0     | 510      |
| ARITH MEAN           |      | 0.30     |        |          | 204.1    | 0.89     | 81.877   | 659.6    | 0.002<A  | 14.2     | 180      |
| GEOM MEAN            |      |          |        |          | 202.2    | 0.82     | 81.569   | 655.1    |          | 14.0     |          |
| MINIMUM              |      | 0.30     |        |          | 127.7    | 0.29     | 72.900   | 530.0    | 0.001    | 11.0     | 40       |
| STD DEV (GEOM *)     |      |          |        |          | 26.4     | 0.36     | 8.257    | 80.4     |          | 2.4      |          |
| # SAMP IN STATISTICS |      | 12       |        |          | 12       | 12       | 4        | 12       | 10       | 11       | 9        |
| % SAMP (EXCLUDED)    |      |          |        |          |          |          |          |          | 9        |          | 25       |
| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      | FECAL    |        |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      | STREPCUS |        |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
|                      |      | MF       |        |          | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
|                      |      | CNT      |        |          | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |
|                      |      | /100ML   |        |          | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |
| SAMPLE               | DATE | DATE     | COND.  | TEMP     |          |          |          |          |          |          |          |
| DATE                 | HR   | HR       | DEG.C  |          |          |          |          |          |          |          |          |
| YMMDD                | LMT  | LMT      |        |          |          |          |          |          |          |          |          |
| 870121               | 1410 | 38426    | 28     | 6        | 0.5      | 0.065    | 0.010    | 1.000    | 0.003<   | 8.05     | 0.036    |
| 870212               | 1130 | 38453    | 16     | 6        | 1.0      | 0.110    | 0.010    | 0.900    | 0.003<   | 8.11     | 0.018    |
| 870317               | 1130 | 38480    | 12     | 6        | 2.0      | 0.055    | 0.010<   | 0.700    | 0.003<   | 8.03     | 0.014    |
| 870421               | 1130 | 38507    | 12     | 6        | 18.0     | 0.020    | 0.010    | 0.700    | 0.003    | 8.08     | 0.007    |
| 870520               | 1130 | 38534    | 168    | 6        | 14.0     | 0.065    | 0.050    | 0.700    | 0.003<   | 8.00     | 0.015    |
| 870617               | 1130 | 38561    | 600>   | 6        | 20.0     | 0.055    | 0.090    | 1.000    | 0.003<   | 7.98     | 0.035    |
| 870722               | 1130 | 38588    | 50AID  | 6        | 25.0     | 0.075    | 0.020    | 0.500    | 0.003<   | 8.15     | 0.030    |
| 870818               | 1130 | 38615    | 296    | 6        | 21.5     | 0.035    | 0.020    | 0.400    | 0.003<   | 8.01     | 0.025    |
| 870923               | 1505 | 38642    | 210    | 6        | 13.5     | 0.005<   | 0.010    | 0.500    | 0.003<   | 8.01     | 0.012    |
| 871021               | 1130 | 38669    | 120    | 6        | 7.0      | 0.055    | 0.010    | 0.800    | 0.003<   | 7.93     | 0.025    |
| 871118               | 1410 | 38696    | 28     | 6        | 7.5      | 0.005<   | 0.010<   | 0.200    | 0.003<   | 8.05     | 0.033    |
| 871216               | 1130 | 38723    | 600>   | 6        | 0.5      | 0.048    | 0.010<   | 1.400    | 0.003<   | 7.89     | 0.017    |

( C O N T D )

B.O.W./ SITE: BIG SWAMP DRAIN  
 SAMPLE POINT: AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER  
 STATION TYPE: RIVER

STATION ID: 04-0013-052-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 33.24 LONG: 081 03 18.67

U T M: 17 0495500.0 4757925.0 4

REGION: 01

DISTANCE: 224.819

| *=INTERIM TEST-NAME: |            | FSMF<br>FECAL<br>STREPCUS<br>MF | FWSTRC          | FWTEMP        | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N  | NNO3UR<br>NO3-N  | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD     | PH   | PP04UR<br>P04    |
|----------------------|------------|---------------------------------|-----------------|---------------|--------------------------|------------------|------------------|-----------------------------|------------------|------|------------------|
| SAMPLE<br>DATE       | HR<br>HOUR | SAMPLE<br>CNT                   | STREAM<br>COND. | WATER<br>TEMP | UNF.REAC<br>MG/L         | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L            | UNF.TOT.<br>MG/L | PH   | UNF.REAC<br>MG/L |
| YYMMDD               | LMT        | NUMBER                          | /100ML          | DEG.C         | AS N                     | AS N             | AS N             | AS N                        | AS PB            |      | AS P             |
| MAXIMUM              |            | 296                             |                 | 25.0          | 0.110                    | 0.090            | 1.400            | 0.760                       | 0.003            | 8.15 | 0.036            |
| ARITH MEAN           |            | 94                              |                 | 10.9          | 0.058                    | 0.026            | 0.733            | 0.476                       | 0.003            | 8.02 | 0.022            |
| GEOM MEAN            |            |                                 |                 | 5.6           |                          |                  | 0.661            | 0.465                       |                  | 8.02 | 0.020            |
| MINIMUM              |            | 12                              |                 | 0.5           | 0.020                    | 0.010            | 0.200            | 0.370                       | 0.003            | 7.89 | 0.007            |
| STD DEV (GEOM *)     |            |                                 |                 | 8.9           |                          |                  | 0.320            | 0.115                       |                  | 0.07 | 0.010            |
| # SAMP IN STATISTICS |            | 10                              |                 | 12            | 10                       | 9                | 12               | 12                          | 1                | 12   | 12               |
| % SAMP (EXCLUDED)    |            | 16                              |                 |               | 16                       | 25               |                  |                             | 90               |      |                  |

| *=INTERIM TEST-NAME: |            | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY | ZNUT<br>ZINC<br>UNF.TOT. |
|----------------------|------------|------------------------------|-----------------------------------|---------------------------|------------------|--------------------------|
| SAMPLE<br>DATE       | HR<br>HOUR | SAMPLE<br>MG/L               | CNT                               | MG/L                      | FTU              | MG/L                     |
| YYMMDD               | LMT        | NUMBER                       | AS P                              | /100ML                    |                  | AS ZN                    |
| 870121               | 1410       | 38426                        | 0.063                             | 4<                        | 5.0<             | 2.40                     |
| 870212               | 1130       | 38453                        | 0.028                             | 4<                        | 5.0<             | 3.40                     |
| 870317               | 1130       | 38480                        | 0.021                             | 4<                        | 1.9              | 3.10                     |
| 870421               | 1130       | 38507                        | 0.032                             | 4<                        | 5.0<             | 3.10                     |
| 870520               | 1130       | 38534                        | 0.040                             | 4<                        | 5.0<             | 3.90                     |
| 870617               | 1130       | 38561                        | 0.071                             | 4<                        | 8.9              | 5.90                     |
| 870722               | 1130       | 38588                        | 0.084                             | 4<                        | 5.4              | 4.30                     |
| 870818               | 1130       | 38615                        | 0.044                             | 4<                        | 2.6              | 3.80                     |
| 870923               | 1505       | 38642                        | 0.056                             | 4<                        | 3.2              | 9.40                     |
| 871021               | 1130       | 38669                        | 0.038                             | 4<                        | 5.0<             | 2.10                     |
| 871118               | 1410       | 38696                        | 0.061                             | 4<                        | 5.0<             | 1.68                     |
| 871216               | 1130       | 38723                        | 0.038                             | 4<                        | 5.0<             | 4.00                     |
| MAXIMUM              |            | 0.084                        |                                   | 8.9                       | 9.40             | 0.040                    |
| ARITH MEAN           |            | 0.048                        |                                   | 4.4                       | 3.92             | 0.017<A                  |
| GEOM MEAN            |            | 0.045                        |                                   |                           | 3.54             | 0.010<A                  |
| MINIMUM              |            | 0.021                        |                                   | 1.9                       | 1.68             | 0.001                    |
| STD DEV (GEOM *)     |            | 0.019                        |                                   |                           | 2.05             | 0.016<A                  |
| # SAMP IN STATISTICS |            | 12                           |                                   | 5                         | 12               | 11                       |
| % SAMP (EXCLUDED)    |            |                              |                                   | 58                        |                  |                          |

STORET CODE: 02  
003  
2870

**DISTANCE: 298.847**

| *INTERIM                 |           | TEST-NAME:       | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF. REAC | NNO3UR<br>NO3-N<br>UNF. REAC | NNNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>P04<br>UNF. REAC | PPUT<br>PHOSPHOR<br>UNF. TOT. | PSAMF<br>PSEUDOMN<br>AERUG. | RSP                        |
|--------------------------|-----------|------------------|--------------------------|------------------------------|------------------------------|------------------------------|------|----------------------------|-------------------------------|-----------------------------|----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER | MG/L<br>AS N             | MG/L<br>AS N                 | MG/L<br>AS N                 | MG/L<br>AS N                 | PH   | MG/L<br>AS P               | MG/L<br>AS P                  | MG/L<br>/100ML              | RESIDUE<br>PARTIC.<br>MG/L |
| 870120                   | 1040      | 38406            | 0.050                    | 0.010                        | 5.400                        | 0.530                        | 7.78 | 0.027                      | 0.060                         | 4<                          | 5.0<                       |
| 870211                   | 0830      | 38433            | 0.800                    | 0.040                        | 2.900                        | 2.060                        | 7.76 | 0.093                      | 0.208                         | 4<                          | 44.3                       |
| 870316                   | 0830      | 38460            | 0.375                    | 0.030                        | 5.500                        | 1.180                        | 7.58 | 0.093                      | 0.157                         | 4<                          | 9.4                        |
| 870420                   | 0830      | 38487            | 0.010                    | 0.090                        | 4.300                        | 0.830                        | 7.79 | 0.017                      | 0.053                         |                             | 5.0<                       |
| 870519                   | 0830      | 38516            | 0.015                    | 0.040                        | 0.040                        | 0.900                        | 8.10 | 0.016                      | 0.098                         | 4<                          | 32.1                       |
| 870616                   | 0830      | 38541            | 0.005                    | 0.050                        | 0.300                        | 2.620                        | 8.09 | 0.010                      | 0.186                         | 4<                          | 23.2                       |
| 870721                   | 0830      | 38568            | 0.010                    | 0.040                        | 0.100<                       | 0.820                        | 7.71 | 0.017                      | 0.074                         | 4<                          | 15.3                       |
| 870817                   | 0830      | 38595            | 0.015                    | 0.030                        | 0.100                        | 1.100                        | 7.65 | 0.001<                     | 0.180                         | 4<                          | 87.9                       |
| 870921                   | 1140      | 38622            | 0.005<                   | 0.040                        | 0.800                        | 0.480                        | 7.77 | 0.069                      | 0.088                         | 4<                          | 5.0<                       |
| 871020                   | 0830      | 38649            | 0.004<                   | 0.010                        | 1.200                        | 0.450                        | 7.69 | 0.009                      | 0.037                         |                             | 9.5                        |
| 871116                   | 1040      | 38676            | 0.001<                   | 0.020                        | 4.600                        | 0.560                        | 7.92 | 0.030                      | 0.050                         | 4<                          | 4.7                        |
| 871214                   | 0830      | 38703            | 0.022                    | 0.020                        | 11.400                       | 0.680                        | 7.85 | 0.027                      | 0.133                         | 4<                          | 8.3                        |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 59 SOUTH OF TAVISTOCK  
 STATION TYPE: RIVER

STATION ID: 04-0013-055-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 18 21.85 LONG: 080 50 55.15

U T M: 17 0512275.0 4794600.0 4

REGION: 01

DISTANCE: 298.847

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L    |
| MAXIMUM              |      | 0.800    | 0.090    | 11.400   | 2.620    | 8.10 | 0.093    | 0.208    |          | 87.9    |
| ARITH MEAN           |      | 0.145    | 0.035    | 3.322    | 1.017    | 7.81 | 0.037    | 0.110    |          | 26.1    |
| GEOM MEAN            |      |          | 0.029    |          | 0.870    | 7.81 |          | 0.095    |          |         |
| MINIMUM              |      | 0.005    | 0.010    | 0.040    | 0.450    | 7.58 | 0.009    | 0.037    |          | 4.7     |
| STD DEV (GEOM *)     |      |          | 0.022    |          | 0.671    | 0.16 |          | 0.060    |          |         |
| # SAMP IN STATISTICS |      | 9        | 12       | 11       | 12       | 12   | 11       | 12       |          | 9       |
| % SAMP (EXCLUDED)    |      | 25       |          | 8        |          |      | 8        |          |          | 25      |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO 15 NEAR KENT BRIDGE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE003

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-058-02

STORET CODE: 02  
 003  
 2870

LAT: 42 30 49.09 LONG: 082 04 20.70

U T M: 17 0411900.0 4707150.0 4

REGION: 01

DISTANCE: 49.084

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 |          |          |          |          |          |          |          |
| 870126               | 1427 | 39407  | 0.30     | 0101     | 273.0    | 0.86     | 45.000   | 770.0    | 0.002    |          | 32       |
| 870223               | 1311 | 39421  | 0.30     | 0101     | 254.0    | 1.45     | 48.500   | 720.0    | 0.003    | 6.5      | 16       |
| 870323               | 1407 | 39435  | 0.30     | 0101     | 216.0    | 2.15     | 21.000   | 500.0    | 0.006    | 15.0     | 44       |
| 870427               | 1341 | 39451  | 0.30     | 0101     | 221.0    | 3.32     | 35.000   | 615.0    | 0.005    | 15.0     | 10AID    |
| 870525               | 1358 | 39467  | 0.30     | 0101     | 203.0    | 2.91     | 45.000   | 655.0    | 0.005    | 13.5     | 4<       |
| 870622               | 1314 | 39482  | 0.30     | 0101     | 139.0    | 3.06     | 48.500   | 495.0    | 0.005    | 9.0      | 304      |
| 870727               | 1303 | 39495  | 0.30     | 0101     | 127.0    | 4.86     | 51.500   | 498.0    | 0.008    | 10.0     | 90AID    |
| 870824               | 1344 | 39509  | 0.30     | 0101     | 171.0    | 1.72     | 50.000   | 555.0    | 0.007    | 7.0      | 6400     |
| 870928               | 1351 | 39523  | 0.30     | 0101     | 180.2    | 1.50     | 58.440   | 695.0    | 0.008    | 10.5     | 300AID   |
| 871026               | 1315 | 39537  | 0.30     | 0101     | 181.6    | 1.60     | 51.120   | 670.0    | 0.007    | 12.0     | 100AID   |
| 871124               | 1319 | 39553  | 0.30     | 0101     | 203.0    | 1.57     | 48.200   | 675.0    | 0.002    | 17.0     | 40AID    |
| MAXIMUM              |      | 0.30   |          |          | 273.0    | 4.86     | 58.440   | 770.0    | 0.008    | 17.0     | 6400     |
| ARITH MEAN           |      | 0.30   |          |          | 197.2    | 2.27     | 52.587   | 622.5    | 0.005    | 11.5     | 734      |
| GEOM MEAN            |      |        |          |          | 192.5    | 2.04     | 52.414   | 615.5    | 0.005    | 11.0     |          |
| MINIMUM              |      | 0.30   |          |          | 127.0    | 0.86     | 48.200   | 495.0    | 0.002    | 6.5      | 10       |
| STD DEV (GEOM *)     |      |        |          |          | 44.2     | 1.16     | 5.275    | 96.9     | 0.002    | 3.6      |          |
| # SAMP IN STATISTICS |      | 11     |          |          | 11       | 11       | 3        | 11       | 11       | 10       | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 8        |          |          |          | 9        |

| *INTERIM TEST-NAME: |      | FSMF     | FWFLOW | FWSTRC  | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|---------------------|------|----------|--------|---------|--------|----------|----------|----------|----------|----------|------|
|                     |      | FECAL    |        |         |        | NH3-N    |          |          | K'DAHL N |          |      |
|                     |      | STREPCUS | STREAM |         |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
|                     |      | MF       | FLOW   |         | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
| SAMPLE              |      | CNT      | M3     | STREAM  | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
| DATE                | HOUR | /100ML   | /S     | COND.   | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| YYMMDD              | LMT  | NUMBER   |        |         |        |          |          |          |          |          |      |
| 870126              | 1427 | 39407    | 12     | 31.500  | 4      | 0.5      | 0.110    | 0.030    | 6.600    | 0.720    | 8.11 |
| 870223              | 1311 | 39421    | 24     | 19.500  | 4      | 0.5      | 0.200    | 0.120    | 5.100    | 0.750    | 8.09 |
| 870323              | 1407 | 39435    | 28     | 113.000 | 6      | 11.0     | 0.070    | 0.050    | 5.800    | 0.700    | 8.18 |
| 870427              | 1341 | 39451    | 10<    | 31.500  | 6      | 10.0     | 0.020    | 0.050    | 4.200    | 0.950    | 8.30 |
| 870525              | 1358 | 39467    | 8      | 7.700   | 6      | 17.0     | 0.030    | 0.050    | 3.200    | 0.990    | 8.27 |
| 870622              | 1314 | 39482    | 72     | 9.500   | 9      | 24.0     | 0.075    | 0.030    | 1.700    | 1.260    | 8.08 |
| 870727              | 1303 | 39495    | 420    | 9.600   | 6      | 28.0     | 0.050    | 0.010    | 1.000    | 1.350    | 8.28 |
| 870824              | 1344 | 39509    | 210    | 9.670   | 6      | 21.0     | 0.090    | 0.070    | 2.000    | 1.250    | 8.08 |
| 870928              | 1351 | 39523    | 40AID  | 9.970   | 6      | 18.0     | 0.025    | 0.020    | 3.200    | 0.940    | 8.08 |
| 871026              | 1315 | 39537    | 500AID | 21.300  | 6      | 9.0      | 0.005<   | 0.020    | 3.300    | 0.960    | 8.18 |
| 871124              | 1319 | 39553    | 10AID  | 27.700  | 6      | 4.0      | 0.011    | 0.040    | 4.100    | 0.770    | 8.21 |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO 15 NEAR KENT BRIDGE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE003

STATION ID: 04-0013-058-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 30 49.09 LONG: 082 04 20.70

U T M: 17 0411900.0 4707150.0 4

REGION: 01

DISTANCE: 49.084

| *=INTERIM TEST-NAME:     |                     | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH |
|--------------------------|---------------------|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|----|
| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                                      |                           |                                  |  |   |   |   |   |    |

|                      |     |         |      |       |       |       |       |      |
|----------------------|-----|---------|------|-------|-------|-------|-------|------|
| MAXIMUM              | 500 | 113.000 | 28.0 | 0.200 | 0.120 | 6.600 | 1.350 | 8.30 |
| ARITH MEAN           | 132 | 26.449  | 13.0 | 0.068 | 0.045 | 3.655 | 0.967 | 8.17 |
| GEOM MEAN            |     | 18.509  | 7.5  |       | 0.036 | 3.220 | 0.943 | 8.17 |
| MINIMUM              | 8   | 7.700   | 0.5  | 0.011 | 0.010 | 1.000 | 0.700 | 8.08 |
| STD DEV (GEOM *)     |     | 30.157  | 9.3  |       | 0.030 | 1.732 | 0.231 | 0.09 |
| # SAMP IN STATISTICS | 10  | 11      | 11   | 10    | 11    | 11    | 11    | 11   |
| % SAMP (EXCLUDED)    | 9   |         |      | 9     |       |       |       |      |

| *=INTERIM TEST-NAME:     |                     | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|---------------------|---|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | SAMPLE<br>NUMBER                          |  |  |                                   |                         |   |

|        |      |       |       |       |     |       |        |       |
|--------|------|-------|-------|-------|-----|-------|--------|-------|
| 870126 | 1427 | 39407 | 0.020 | 0.045 | 4<  | 9.6   | 11.70  | 0.004 |
| 870223 | 1311 | 39421 | 0.016 | 0.052 | 4<  | 12.9  | 23.00  | 0.007 |
| 870323 | 1407 | 39435 | 0.049 | 0.138 | 4<  | 71.0  | 76.00  | 0.013 |
| 870427 | 1341 | 39451 | 0.005 | 0.110 | 4<  | 48.1  | 43.00  | 0.006 |
| 870525 | 1358 | 39467 | 0.003 | 0.146 |     | 35.2  | 34.00  | 0.005 |
| 870622 | 1314 | 39482 | 0.008 | 0.152 | 4<  | 62.7  | 61.00  | 0.009 |
| 870727 | 1303 | 39495 | 0.011 | 0.215 | 4<  | 82.5  | 115.00 | 0.011 |
| 870824 | 1344 | 39509 | 0.112 | 0.190 | 108 | 100.5 | 167.00 | 0.013 |
| 870928 | 1351 | 39523 | 0.053 | 0.136 | 4<  | 56.6  | 92.00  | 0.015 |
| 871026 | 1315 | 39537 | 0.021 | 0.164 | 4<  | 54.5  | 44.00  | 0.014 |
| 871124 | 1319 | 39553 | 0.017 | 0.074 | 4<  | 11.7  | 8.30   | 0.005 |

|                      |       |       |     |       |        |       |
|----------------------|-------|-------|-----|-------|--------|-------|
| MAXIMUM              | 0.112 | 0.215 | 108 | 100.5 | 167.00 | 0.015 |
| ARITH MEAN           | 0.029 | 0.129 | 108 | 49.6  | 61.36  | 0.009 |
| GEOM MEAN            | 0.017 | 0.116 |     | 38.5  | 43.93  | 0.008 |
| MINIMUM              | 0.003 | 0.045 | 108 | 9.6   | 8.30   | 0.004 |
| STD DEV (GEOM *)     | 0.032 | 0.054 |     | 29.9  | 48.30  | 0.004 |
| # SAMP IN STATISTICS | 11    | 11    | 1   | 11    | 11     | 11    |
| % SAMP (EXCLUDED)    |       |       | 90  |       |        |       |



B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT COUNTY RD 19 SOUTH OF SOUTHWOLD  
 STATION TYPE: RIVER

STATION ID: 04-0013-061-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 48 25.78 LONG: 081 21 47.65

U T M: 17 0470300.0 4739250.0 4

REGION: 01

DISTANCE: 163.344

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COD      | COD      | COND25   | FCMF     | FSMF     | FWSTRC  |      |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|---------|------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CHEM. OX | CHEM. OX | CONDUCT. | FECAL    | FECAL    |         |      |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | DEMAND   | DEMAND   | 25C      | COLIFORM | STREPCUS |         |      |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | CNT      | CNT      | STREAM  |      |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AS N     | AS O     | AT 25 C  | /100ML   | /100ML   | COND.   |      |
| 870324               | 1325 | 39441  | 0101     |          | 27.000   |          | 27.5     | 535.0    | 132      | 4        | 6       |      |
| 870428               | 1300 | 39457  | 0101     |          | 49.500   |          |          | 590.0    | 1000     | 150      | 6       |      |
| 870526               | 1125 | 39473  | 0101     |          | 42.500   |          |          | 730.0    | 600>     | 600>     | 6       |      |
| 871027               | 1215 | 39543  | 0101     | 193.300  |          | 47.5     |          | 935.0    | 10000    | 15000    | 6       |      |
| 871125               | 1120 | 39559  | 0101     | 66.980   |          |          |          | 610.0    | 7000AID  | 24000    | 6       |      |
| MAXIMUM              |      | 0.30   |          | 193.300  | 49.500   | 47.5     | 27.5     | 935.0    | 10000    | 24000    |         |      |
| ARITH MEAN           |      | 0.30   |          | 130.140  | 39.667   | 47.5     | 27.5     | 680.0    | 4533     | 9789     |         |      |
| GEOM MEAN            |      |        |          | 113.786  | 38.440   |          |          | 666.4    |          |          |         |      |
| MINIMUM              |      | 0.30   |          | 66.980   | 27.000   | 47.5     | 27.5     | 535.0    | 132      | 4        |         |      |
| STD DEV (GEOM *)     |      |        |          | 89.322   | 11.514   |          |          | 159.3    |          |          |         |      |
| # SAMP IN STATISTICS |      | 5      |          | 2        | 3        | 1        | 1        | 5        | 4        | 4        |         |      |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 20       | 20       |         |      |
| *=INTERIM TEST-NAME: |      | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH       | PPO4UR   | PPUT     | PSAMF    | RSP     |      |
|                      |      |        | NH3-N    |          |          | K'DAHL N |          |          |          | PSEUDOMN |         |      |
|                      |      |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |          | P04      | PHOSPHOR | AERUG.   |         |      |
| SAMPLE               |      | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |          | UNF.REAC | UNF.TOT. | MF       | RESIDUE |      |
| DATE                 | HR   | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | PH       | MG/L     | MG/L     | CNT      | PARTIC. |      |
| YYMMDD               | LMT  | DEG.C  | AS N     | AS N     | AS N     | AS N     |          | AS P     | AS P     | /100ML   | MG/L    |      |
| 870324               | 1325 | 39441  | 11.0     | 0.017    | 0.010    | 2.800    | 0.580    | 8.32     | 0.009    | 0.018    | 4<      | 4.9  |
| 870428               | 1300 | 39457  | 8.0      | 0.085    | 0.030    | 2.400    | 0.950    | 7.88     | 0.018    | 0.046    | 4<      | 5.0< |
| 870526               | 1125 | 39473  | 16.0     | 0.125    | 0.030    | 1.800    | 1.060    | 7.73     | 0.033    | 0.118    |         | 15.1 |
| 871027               | 1215 | 39543  | 9.0      | 0.159    | 0.040    | 11.200   | 2.250    | 7.73     | 0.329    | 0.460    | 132     | 70.2 |
| 871125               | 1120 | 39559  | 5.0      | 0.132    | 0.060    | 12.000   | 2.750    | 7.86     | 0.180    | 0.580    | 1500>   | 91.5 |
| MAXIMUM              |      | 16.0   | 0.159    | 0.060    | 12.000   | 2.750    | 8.32     | 0.329    | 0.580    | 132      | 91.5    |      |
| ARITH MEAN           |      | 9.8    | 0.104    | 0.034    | 6.040    | 1.518    | 7.90     | 0.114    | 0.244    | 132      | 45.4    |      |
| GEOM MEAN            |      | 9.1    | 0.082    | 0.029    | 4.387    | 1.293    | 7.90     | 0.050    | 0.121    |          |         |      |
| MINIMUM              |      | 5.0    | 0.017    | 0.010    | 1.800    | 0.580    | 7.73     | 0.009    | 0.018    | 132      | 4.9     |      |
| STD DEV (GEOM *)     |      | 4.1    | 0.055    | 0.018    | 5.096    | 0.931    | 0.24     | 0.139    | 0.258    |          |         |      |
| # SAMP IN STATISTICS |      | 5      | 5        | 5        | 5        | 5        | 5        | 5        | 5        | 1        | 4       |      |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          | 75       | 20      |      |

( C O N T D )

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT COUNTY RD 19 SOUTH OF SOUTHWOLD  
 STATION TYPE: RIVER

STATION ID: 04-0013-061-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 48 25.78 LONG: 081 21 47.65 U T M: 17 0470300.0 4739250.0 4 REGION: 01 DISTANCE: 163.344

\*=INTERIM TEST-NAME: TURB

| SAMPLE               |             | SAMPLE<br>NUMBER | TURB'ITY<br>FTU |
|----------------------|-------------|------------------|-----------------|
| DATE<br>YYMMDD       | HOUR<br>LMT |                  |                 |
| 870324               | 1325        | 39441            | 4.00            |
| 870428               | 1300        | 39457            | 4.40            |
| 870526               | 1125        | 39473            | 25.00           |
| 871027               | 1215        | 39543            | 134.00          |
| 871125               | 1120        | 39559            | 144.00          |
| MAXIMUM              |             |                  | 144.00          |
| ARITH MEAN           |             |                  | 62.28           |
| GEOM MEAN            |             |                  | 24.31           |
| MINIMUM              |             |                  | 4.00            |
| STD DEV (GEOM *)     |             |                  | 70.64           |
| # SAMP IN STATISTICS |             |                  | 5               |
| % SAMP (EXCLUDED)    |             |                  |                 |

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT PERTH COUNTY ROAD NO 28 ST.MARY'S  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD009

STATION ID: 04-0013-064-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 17.26 LONG: 081 05 46.02

U T M: 17 0492200.0 4790750.0 4

REGION: 01

DISTANCE: 258.936

| *=-INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC | FWTEMP |
|-----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
|                       |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        |        |
| SAMPLE                |      | SAMPLE               | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   | COND.  | TEMP   |
| DATE                  | HOUR | DEPTH                | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     |        | DEG.C  |
| YYMMDD                | LMT  | NUMBER               | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     |        |        |
| 870120                | 0825 | 38400                | 0101     |          | 14.000   | 545.0    | 80AID    | 44       | 1.870  | 6      | 2.5    |
| 870211                | 1145 | 38427                | 0101     |          | 13.500   | 595.0    | 4        | 28       | 1.730  | 6      | 1.0    |
| 870316                | 1145 | 38454                | 0101     |          | 14.500   | 540.0    | 4<       | 4        | 0.586  | 6      | 3.5    |
| 870420                | 1145 | 38481                | 0101     |          | 11.000   | 430.0    | 4<       | 4<       | 2.040  | 6      | 12.0   |
| 870519                | 1145 | 38508                | 0101     |          | 11.500   | 398.0    | 24       | 52       | 0.585  |        |        |
| 870616                | 1145 | 38535                | 0101     |          | 10.500   | 400.0    | 308      | 164      | 0.996  | 6 9    | 20.0   |
| 870721                | 1145 | 38562                | 0101     |          | 11.500   | 390.0    | 310      | 170      | 0.905  | 6      | 24.0   |
| 870817                | 1145 | 38589                | 0101     |          | 12.000   | 326.0    | 1050     | 340      | 0.935  | 6      | 23.0   |
| 870921                | 0830 | 38616                | 0101     | 11.200   |          | 280.0    | 1500>    | 770      | 1.330  | 6      | 17.0   |
| 871020                | 1145 | 38643                | 0101     | 13.150   |          | 342.0    | 1100     | 250      | 1.230  | 6      | 10.0   |
| 871116                | 0830 | 38670                | 0101     | 11.660   |          | 408.0    | 350      | 170      | 1.180  | 6      | 7.0    |
| 871214                | 1145 | 38697                | 0101     | 15.740   |          | 484.0    | 180      | 170      | 1.480  | 6      | 2.5    |
|                       |      | MAXIMUM              | 0.30     |          | 15.740   | 14.500   | 1100     | 770      | 2.040  |        | 24.0   |
|                       |      | ARITH MEAN           | 0.30     |          | 12.937   | 12.312   | 428.2    | 378      | 1.239  |        | 11.1   |
|                       |      | GEOM MEAN            |          |          | 12.822   | 12.236   | 418.4    |          | 1.152  |        | 7.4    |
|                       |      | MINIMUM              | 0.30     |          | 11.200   | 10.500   | 280.0    | 4        | 0.585  |        | 1.0    |
|                       |      | STD DEV (GEOM *)     |          |          | 2.045    | 1.487    | 95.6     |          | 0.474  |        | 8.7    |
|                       |      | # SAMP IN STATISTICS | 12       |          | 4        | 8        | 12       | 9        | 11     | 12     | 11     |
|                       |      | % SAMP (EXCLUDED)    |          |          |          |          |          | 25       | 8      |        |        |

| *=-INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|-----------------------|------|----------|----------|----------|----------|------|----------|----------|---------|----------|
|                       |      | NH3-N    | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR |         |          |
| SAMPLE                |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
| DATE                  | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | FTU      |
| YYMMDD                | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    |          |
| 870120                | 0825 | 0.140    | 0.010    | 3.300    | 0.660    | 8.08 | 0.010    | 0.062    | 5.0<    | 4.40     |
| 870211                | 1145 | 0.190    | 0.040    | 3.300    | 0.760    | 7.95 | 0.006    | 0.031    | 4.2     | 4.60     |
| 870316                | 1145 | 0.460    | 0.030    | 3.600    | 1.060    | 7.34 | 0.029    | 0.099    | 9.4     | 12.80    |
| 870420                | 1145 | 0.075    | 0.030    | 4.100    | 0.760    | 8.15 | 0.010    | 0.054    | 5.0<    | 6.50     |
| 870519                | 1145 | 0.035    | 0.040    | 2.800    | 0.650    | 8.60 | 0.018    | 0.031    | 5.0<    | 4.90     |
| 870616                | 1145 | 0.305    | 0.100    | 1.700    | 0.990    | 8.09 | 0.006    | 0.037    | 5.0<    | 1.45     |
| 870721                | 1145 | 0.465    | 0.090    | 0.100<   | 1.300    | 7.95 | 0.010    | 0.084    | 16.2    | 14.90    |
| 870817                | 1145 | 0.350    | 0.140    | 0.100    | 1.340    | 7.86 | 0.001<   | 0.128    | 53.3    | 39.00    |
| 870921                | 0830 | 0.050    | 0.020    | 0.200    | 1.170    | 8.23 | 0.024    | 0.113    | 27.5    | 30.00    |
| 871020                | 1145 | 0.560    | 0.020    | 0.500    | 1.580    | 7.80 | 0.011    | 0.106    | 27.7    | 27.00    |
| 871116                | 0830 | 0.481    | 0.010<   | 0.900    | 1.680    | 8.44 | 0.008    | 0.116    | 26.7    | 14.70    |
| 871214                | 1145 | 0.238    | 0.050    | 4.600    | 1.440    | 8.08 | 0.001<   | 0.076    | 24.4    | 17.10    |

( C O N T D )

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT PERTH COUNTY ROAD NO 28 ST.MARY'S  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD009

STATION ID: 04-0013-064-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 17.26 LONG: 081 05 46.02

U T M: 17 0492200.0 4790750.0 4

REGION: 01

DISTANCE: 258.936

| *=INTERIM TEST-NAME:     |                     | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PPO4UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU |
|--------------------------|---------------------|--------------------------|--------------------------|--------------------------|-----------------------------|------|---------------------------|------------------------------|---------------------------|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH   | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     | RESIDUE<br>MG/L           | TURB'ITY<br>FTU         |
|                          | MAXIMUM             | 0.560                    | 0.140                    | 4.600                    | 1.680                       | 8.60 | 0.029                     | 0.128                        | 53.3                      | 39.00                   |
|                          | ARITH MEAN          | 0.279                    | 0.052                    | 2.282                    | 1.116                       | 8.05 | 0.013                     | 0.078                        | 23.7                      | 14.78                   |
|                          | GEOM MEAN           | 0.204                    |                          |                          | 1.061                       | 8.04 |                           | 0.070                        |                           | 10.29                   |
|                          | MINIMUM             | 0.035                    | 0.010                    | 0.100                    | 0.650                       | 7.34 | 0.006                     | 0.031                        | 4.2                       | 1.45                    |
|                          | STD DEV (GEOM *)    | 0.185                    |                          |                          | 0.360                       | 0.32 |                           | 0.035                        |                           | 11.80                   |
| # SAMP IN STATISTICS     |                     | 12                       | 11                       | 11                       | 12                          | 12   | 10                        | 12                           | 8                         | 12                      |
| % SAMP (EXCLUDED)        |                     |                          | 8                        | 8                        |                             |      | 16                        |                              | 33                        |                         |

B.O.W./ SITE: SHARON CREEK  
 SAMPLE POINT: AT SHARON RESERVOIR OUTLET  
 STATION TYPE: RIVER

STATION ID: 04-0013-065-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

| LAT: 42 53 05.75     |      |            |          | LONG: 081 24 05.95 |          |          |          | U T M: 17 0467200.0 4747900.0 4 |          |         |          | REGION: 01 |  | DISTANCE: 172.517 |  |
|----------------------|------|------------|----------|--------------------|----------|----------|----------|---------------------------------|----------|---------|----------|------------|--|-------------------|--|
| *=INTERIM            |      | TEST-NAME: | FWSADP   | FGPROJ             | CLIDUR   | CLIDUR   | COND25   | FCMF                            | FSMF     | FWSTRC  | FWTEMP   | NNHTUR     |  |                   |  |
|                      |      |            |          |                    | CHLORIDE | CHLORIDE | CONDUCT. | FECAL                           | FECAL    |         |          | NH3-N      |  |                   |  |
| SAMPLE               |      |            | SAMPLE   | PROJECT            | UNF.REAC | UNF.REAC | 25C      | COLIFORM                        | STREPCUS |         | WATER    | TOTAL      |  |                   |  |
| DATE                 | HR   |            | DEPTH    | SUB-PROJ           | MG/L     | MG/L     | UMHO/CM  | MF                              | MF       |         | TEMP     | UNF.REAC   |  |                   |  |
| YYMMDD               | LMT  | SAMPLE     | M        | CODE               | AS CL    | AS CL-   | AT 25 C  | CNT                             | CNT      | STREAM  | DEG.C    | MG/L       |  |                   |  |
|                      |      | NUMBER     |          |                    |          |          |          | /100ML                          | /100ML   | COND.   |          | AS N       |  |                   |  |
| 870224               | 1140 | 39426      | 0.30     | 0101               |          | 29.500   | 555.0    | 432                             | 44       | 6       | 1.0      | 0.120      |  |                   |  |
| 870324               | 1340 | 39442      | 0.30     | 0101               |          | 17.500   | 330.0    | 4<                              | 4<       | 6       | 8.0      | 0.041      |  |                   |  |
| 870428               | 1315 | 39458      | 0.30     | 0101               |          | 44.500   | 555.0    | 10<                             | 170      | 6       | 12.0     | 0.130      |  |                   |  |
| 870526               | 1130 | 39474      | 0.30     | 0101               |          | 46.000   | 510.0    | 308                             | 52       | 6       | 17.0     | 0.130      |  |                   |  |
| 870623               | 1145 | 39487      | 0.30     | 0101               |          | 45.500   | 452.0    | 70AID                           | 16       | 6       | 25.0     | 0.020      |  |                   |  |
| 870728               | 1148 | 39500      | 0.30     | 0101               |          | 48.500   | 432.0    | 4                               | 12       | 6       | 27.0     | 0.035      |  |                   |  |
| 870825               | 1045 | 39514      | 0.30     | 0101               |          | 50.000   | 441.0    | 4<                              | 4<       | 6       | 23.0     | 0.115      |  |                   |  |
| 870929               | 1125 | 39528      | 0.30     | 0101               | 46.420   |          | 478.0    | 4<                              | 12       | 6       | 19.0     | 0.200      |  |                   |  |
| 871027               | 1235 | 39544      | 0.30     | 0101               | 45.860   |          | 497.0    | 10AID                           | 80AID    | 6       | 9.0      | 0.481      |  |                   |  |
| 871125               | 1135 | 39560      | 0.30     | 0101               | 49.200   |          | 520.0    | 48                              | 92       | 6       | 5.0      | 0.531      |  |                   |  |
| MAXIMUM              |      |            | 0.30     |                    | 49.200   | 50.000   | 555.0    | 432                             | 170      |         | 27.0     | 0.531      |  |                   |  |
| ARITH MEAN           |      |            | 0.30     |                    | 47.160   | 40.214   | 477.0    | 145                             | 60       |         | 14.6     | 0.180      |  |                   |  |
| GEOM MEAN            |      |            |          |                    | 47.138   | 38.103   | 472.2    |                                 |          |         | 10.8     | 0.113      |  |                   |  |
| MINIMUM              |      |            | 0.30     |                    | 45.860   | 17.500   | 330.0    | 4                               | 12       |         | 1.0      | 0.020      |  |                   |  |
| STD DEV (GEOM *)     |      |            |          |                    | 1.789    | 12.076   | 67.5     |                                 |          |         | 8.9      | 0.180      |  |                   |  |
| # SAMP IN STATISTICS |      |            | 10       |                    | 3        | 7        | 10       | 6                               | 8        |         | 10       | 10         |  |                   |  |
| % SAMP (EXCLUDED)    |      |            |          |                    |          |          |          | 40                              | 20       |         |          |            |  |                   |  |
| *=INTERIM            |      | TEST-NAME: | NNO2UR   | NNO3UR             | NNTKUR   | PH       | PP04UR   | PPUT                            | PSAMF    | RSP     | TURB     |            |  |                   |  |
|                      |      |            | NO2-N    | NO3-N              | K'DAHL N |          | PO4      | PHOSPHOR                        | PSEUDOMN |         |          |            |  |                   |  |
| SAMPLE               |      |            | UNF.REAC | UNF.REAC           | UNF.REAC |          | UNF.REAC | UNF.TOT.                        | AERUG.   | RESIDUE | TURB'ITY |            |  |                   |  |
| DATE                 | HR   |            | MG/L     | MG/L               | MG/L     | PH       | MG/L     | MG/L                            | MF       | PARTIC. | FTU      |            |  |                   |  |
| YYMMDD               | LMT  | SAMPLE     | AS N     | AS N               | AS N     |          | AS P     | AS P                            | CNT      | MG/L    |          |            |  |                   |  |
|                      |      | NUMBER     |          |                    |          |          |          |                                 | /100ML   |         |          |            |  |                   |  |
| 870224               | 1140 | 39426      | 0.040    | 7.200              | 0.660    | 7.84     | 0.048    | 0.069                           | 4<       | 2.1     | 4.10     |            |  |                   |  |
| 870324               | 1340 | 39442      | 0.010    | 2.000              | 0.690    | 8.45     | 0.049    | 0.092                           | 4<       | 2.5     | 4.00     |            |  |                   |  |
| 870428               | 1315 | 39458      | 0.060    | 3.800              | 0.990    | 8.11     | 0.009    | 0.065                           | 4<       | 9.4     | 8.90     |            |  |                   |  |
| 870526               | 1130 | 39474      | 0.050    | 2.600              | 1.130    | 8.18     | 0.001<   | 0.036                           | 4<       | 3.2     | 9.40     |            |  |                   |  |
| 870623               | 1145 | 39487      | 0.070    | 1.900              | 0.860    | 8.64     | 0.003    | 0.027                           | 4        | 6.9     | 8.30     |            |  |                   |  |
| 870728               | 1148 | 39500      | 0.040    | 0.700              | 0.810    | 8.72     | 0.001<   | 0.043                           | 4<       | 10.3    | 14.60    |            |  |                   |  |
| 870825               | 1045 | 39514      | 0.030    | 0.100              | 0.870    | 8.34     | 0.015    | 0.032                           | 4<       | 5.0<    | 4.80     |            |  |                   |  |
| 870929               | 1125 | 39528      | 0.030    | 0.300              | 1.040    | 7.85     | 0.006    | 0.038                           | 4<       | 5.0<    | 7.40     |            |  |                   |  |
| 871027               | 1235 | 39544      | 0.010    | 0.600              | 1.280    | 7.87     | 0.012    | 0.070                           | 4<       | 13.6    | 24.00    |            |  |                   |  |
| 871125               | 1135 | 39560      | 0.020    | 0.400              | 1.340    | 7.90     | 0.012    | 0.053                           | 4<       | 14.4    | 15.40    |            |  |                   |  |

( C O N T D )

B.O.W./ SITE: SHARON CREEK  
 SAMPLE POINT: AT SHARON RESERVOIR OUTLET  
 STATION TYPE: RIVER

STATION ID: 04-0013-065-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 53 05.75 LONG: 081 24 05.95

U T M: 17 0467200.0 4747900.0 4

REGION: 01

DISTANCE: 172.517

| *=INTERIM TEST-NAME: |     | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------------------|-----|----------|----------|----------|------|----------|----------|----------|---------|----------|
|                      |     | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |          |
|                      |     | UNF.REAC | UNF.REAC | TOTAL    |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |          |
| SAMPLE               |     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | PARTIC. | TURB'ITY |
| DATE                 | HR  | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | MG/L    | FTU      |
| YYMMDD               | LMT | NUMBER   | NUMBER   | NUMBER   |      |          |          | /100ML   |         |          |
| MAXIMUM              |     | 0.070    | 7.200    | 1.340    | 8.72 | 0.049    | 0.092    | 4        | 14.4    | 24.00    |
| ARITH MEAN           |     | 0.036    | 1.960    | 0.967    | 8.19 | 0.019    | 0.052    | 4        | 7.8     | 10.09    |
| GEOM MEAN            |     | 0.030    | 1.031    | 0.942    | 8.18 |          | 0.049    |          |         | 8.59     |
| MINIMUM              |     | 0.010    | 0.100    | 0.660    | 7.84 | 0.003    | 0.027    | 4        | 2.1     | 4.00     |
| STD DEV (GEOM *)     |     | 0.020    | 2.195    | 0.232    | 0.33 |          | 0.021    |          |         | 6.28     |
| # SAMP IN STATISTICS |     | 10       | 10       | 10       | 10   | 8        | 10       | 1        | 8       | 10       |
| % SAMP (EXCLUDED)    |     |          |          |          |      | 20       |          | 90       | 20      |          |

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT WEST ZORRA TWP.CONC.ROAD 2-3  
 STATION TYPE: RIVER

STATION ID: 04-0013-066-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 14.16 LONG: 080 59 06.77

U T M: 17 0501200.0 4790650.0 4

REGION: 01

DISTANCE: 269.880

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| DATE                 | HR   | NUMBER | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  |        | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | AS N     |
| 870120               | 1055 | 38407  | 0101     |          | 13.500   | 575.0    | 60       | 20       | 4      | 0.5    | 0.025    |
| 870211               | 0900 | 38434  | 0101     |          | 14.000   | 640.0    | 188      | 44       | 4      | 1.0    | 0.180    |
| 870316               | 0900 | 38461  | 0101     |          | 13.500   | 560.0    | 80AID    | 100      | 6      | 0.5    | 0.165    |
| 870420               | 0900 | 38488  | 0101     |          | 12.500   | 595.0    | 56       | 32       | 6      | 14.0   | 0.005<   |
| 870519               | 0900 | 38515  | 0101     |          | 12.500   | 620.0    | 204      | 80       |        |        | 0.025    |
| 870616               | 0900 | 38542  | 0101     |          | 11.000   | 560.0    | 600>     | 388      | 6      | 18.5   | 0.050    |
| 870721               | 0900 | 38569  | 0101     |          | 12.000   | 570.0    | 500AID   | 1100     | 6      | 22.0   | 0.030    |
| 870817               | 0900 | 38596  | 0101     |          | 12.500   | 550.0    | 2000     | 210      | 6      | 21.5   | 0.015    |
| 870921               | 1205 | 38623  | 0101     | 9.700    |          | 575.0    | 1500>    | 710      | 6      | 13.5   | 0.005<   |
| 871020               | 0900 | 38650  | 0101     | 9.870    |          | 590.0    | 300      | 20AID    | 6      | 8.5    | 0.005<   |
| 871116               | 1055 | 38677  | 0101     | 15.440   |          | 585.0    | 90AID    | 30AID    | 6      | 5.0    | 0.005<   |
| 871214               | 0900 | 38704  | 0101     | 18.720   |          | 575.0    | 300      | 240      | 6      | 2.5    | 0.005    |
| MAXIMUM              |      | 0.30   |          | 18.720   | 14.000   | 640.0    | 2000     | 1100     |        | 22.0   | 0.180    |
| ARITH MEAN           |      | 0.30   |          | 13.432   | 12.687   | 582.9    | 378      | 248      |        | 9.8    | 0.062    |
| GEOM MEAN            |      |        |          | 12.898   | 12.655   | 582.4    |          | 106      |        | 5.0    |          |
| MINIMUM              |      | 0.30   |          | 9.700    | 11.000   | 550.0    | 56       | 20       |        | 0.5    | 0.005    |
| STD DEV (GEOM *)     |      |        |          | 4.420    | 0.961    | 25.8     |          | 4*       |        | 8.5    |          |
| # SAMP IN STATISTICS |      | 12     |          | 4        | 8        | 12       | 10       | 12       |        | 11     | 8        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 16       |          |        |        | 33       |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | /100ML   | MG/L    |
| 870120               | 1055 | 0.010    | 4.500    | 0.450    | 7.94 | 0.013    | 0.035    | 4<       | 5.0<    |
| 870211               | 0900 | 0.040    | 3.900    | 0.750    | 7.85 | 0.026    | 0.051    | 4<       | 3.7     |
| 870316               | 0900 | 0.020    | 4.300    | 1.080    | 7.97 | 0.053    | 0.128    | 4<       | 18.8    |
| 870420               | 0900 | 0.040    | 3.700    | 0.560    | 7.90 | 0.005    | 0.037    | 4<       | 5.0<    |
| 870519               | 0900 | 0.060    | 0.060    | 0.610    | 8.06 | 0.009    | 0.034    | 4<       | 5.0<    |
| 870616               | 0900 | 0.040    | 2.500    | 0.990    | 8.21 | 0.020    | 0.095    | 4<       | 5.0<    |
| 870721               | 0900 | 0.020    | 0.100<   | 0.660    | 7.97 | 0.017    | 0.046    | 8        | 9.9     |
| 870817               | 0900 | 0.020    | 1.700    | 0.750    | 7.94 | 0.001<   | 0.085    | 4<       | 57.1    |
| 870921               | 1205 | 0.020    | 2.200    | 0.450    | 7.90 | 0.025    | 0.041    | 4<       | 9.6     |
| 871020               | 0900 | 0.010<   | 2.600    | 0.310    | 7.84 | 0.005    | 0.016    | 4<       | 5.0<    |
| 871116               | 1055 | 0.010<   | 4.200    | 0.500    | 7.96 | 0.009    | 0.030    | 4<       | 5.0<    |
| 871214               | 0900 | 0.010    | 9.100    | 0.770    | 7.95 | 0.035    | 0.090    | 28       | 15.2    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

96

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT WEST ZORRA TWP.CONC.ROAD 2-3  
 STATION TYPE: RIVER

STATION ID: 04-0013-066-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 14.16 LONG: 080 59 06.77

U T M: 17 0501200.0 4790650.0 4

REGION: 01

DISTANCE: 269.880

| *INTERIM TEST-NAME:  |     | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|-----|----------|----------|----------|------|----------|----------|----------|---------|
|                      |     | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |
|                      |     | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |
| SAMPLE               |     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | PARTIC. |
| DATE                 | HR  | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | MG/L    |
| YYMMDD               | LMT |          |          |          |      |          |          | /100ML   |         |
| MAXIMUM              |     | 0.060    | 9.100    | 1.080    | 8.21 | 0.053    | 0.128    | 28       | 57.1    |
| ARITH MEAN           |     | 0.028    | 3.524    | 0.657    | 7.96 | 0.020    | 0.057    | 18       | 19.0    |
| GEOM MEAN            |     |          |          | 0.621    | 7.96 |          | 0.049    |          |         |
| MINIMUM              |     | 0.010    | 0.060    | 0.310    | 7.84 | 0.005    | 0.016    | 8        | 3.7     |
| STD DEV (GEOM *)     |     |          |          | 0.226    | 0.10 |          | 0.034    |          |         |
| # SAMP IN STATISTICS |     | 10       | 11       | 12       | 12   | 11       | 12       | 2        | 6       |
| % SAMP (EXCLUDED)    |     | 16       | 8        |          |      | 8        |          | 83       | 50      |



B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 2 MILES UPSTREAM FROM ST.MARY'S  
 STATION TYPE: RIVER

STATION ID: 04-0013-067-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 0101

LAT: 43 17 13.69 LONG: 081 10 07.91 U T M: 17 0486300.0 4792500.0 4 REGION: 01 DISTANCE: 258.775

| *=INTERIM TEST-NAME:     |              | FWSADP               | FGPROJ     | CLIDUR                      | CLIDUR                                | COND25                                 | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |        |
|--------------------------|--------------|----------------------|------------|-----------------------------|---------------------------------------|--|--|--|--------|------------------------|--|--------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>NUMBER     | DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C            |  |        | WATER<br>TEMP<br>DEG.C |  |        |
| 870120                   | 0920         | 38403                | 0.30       | 0101                        |                                       | 24.500                                 | 700.0  | 16   | 4<     | 6                      | 0.5  | 0.045  |
| 870316                   | 1030         | 38457                | 0.30       | 0101                        |                                       | 30.500                                 | 650.0  | 124  | 60     | 6                      | 1.0  | 0.335  |
| 870420                   | 1030         | 38484                | 0.30       | 0101                        |                                       | 31.000                                 | 630.0  | 12   | 4<     | 6                      | 12.0   | 0.015  |
| 870519                   | 1030         | 38511                | 0.30       | 0101                        |                                       | 52.500                                 | 720.0  | 164  | 44     |                        |  | 0.005< |
| 870616                   | 1030         | 38538                | 0.30       | 0101                        |                                       | 92.000                                 | 815.0  | 600>   | 252    | 6                      | 22.0   | 0.040  |
| 870721                   | 1030         | 38565                | 0.30       | 0101                        |                                       | 26.500                                 | 500.0  | 1060   | 870    | 6                      | 24.5   | 0.050  |
| 870817                   | 1030         | 38592                | 0.30       | 0101                        |                                       | 77.500                                 | 705.0  | 750  | 160    | 6                      | 24.5   | 0.075  |
| 870921                   | 1005         | 38619                | 0.30       | 0101                        | 99.410                                |  | 815.0  | 1500>  | 600    | 6                      | 15.0   | 0.055  |
| 871020                   | 1030         | 38646                | 0.30       | 0101                        | 102.900                               |  | 890.0  | 90AID  | 30AID  | 6                      | 8.0  | 0.010  |
| 871116                   | 0920         | 38673                | 0.30       | 0101                        | 39.140                                |  | 670.0  | 60AID  | 20AID  | 6                      | 5.5  | 0.001< |
| 871214                   | 1030         | 38700                | 0.30       | 0101                        | 37.080                                |  | 660.0  | 1180   | 240    | 6                      | 2.5  | 0.083  |
|                          |              | MAXIMUM              | 0.30       |                             | 102.900                               | 92.000                                 | 890.0  | 1180   | 870    |                        | 24.5   | 0.335  |
|                          |              | ARITH MEAN           | 0.30       |                             | 69.632                                | 47.786                                 | 705.0  | 384  | 253    |                        | 11.5   | 0.079  |
|                          |              | GEOM MEAN            |            |                             | 62.073                                | 41.980                                 | 697.5  |  |        |                        | 6.5  |        |
|                          |              | MINIMUM              | 0.30       |                             | 37.080                                | 24.500                                 | 500.0  | 12   | 20     |                        | 0.5  | 0.010  |
|                          |              | STD DEV (GEOM *)     |            |                             | 36.437                                | 27.190                                 | 106.1  |  |        |                        | 9.6  |        |
|                          |              | # SAMP IN STATISTICS | 11         |                             | 4                                     | 7                                      | 11   | 9  | 9      |                        | 10   | 9      |
|                          |              | % SAMP (EXCLUDED)    |            |                             |                                       |  |  | 18   | 18     |                        |  | 18     |

| *=INTERIM TEST-NAME:     |              | NNO2UR                   | NNO3UR                   | NNTKUR<br>K'DAHL N<br>TOTAL | PH    | PP04UR                   | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP                        |      |
|--------------------------|--------------|--------------------------|--------------------------|-----------------------------|-------|--------------------------|--------------------------------------|--|----------------------------|------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH    | UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P |  | RESIDUE<br>PARTIC.<br>MG/L |      |
| 870120                   | 0920         | 38403                    | 0.010                    | 5.300                       | 0.570 | 8.17                     | 0.008                                | 0.029  | 4<                         | 5.0< |
| 870316                   | 1030         | 38457                    | 0.030                    | 5.000                       | 1.090 | 8.12                     | 0.059                                | 0.107  | 4<                         | 4.3  |
| 870420                   | 1030         | 38484                    | 0.050                    | 3.600                       | 0.830 | 8.18                     | 0.008                                | 0.041  | 4<                         | 5.0< |
| 870519                   | 1030         | 38511                    | 0.150                    | 0.150                       | 0.930 | 8.25                     | 0.019                                | 0.096  | 4<                         | 5.0< |
| 870616                   | 1030         | 38538                    | 0.020                    | 0.600                       | 1.070 | 8.17                     | 0.029                                | 0.119  | 4                          | 14.8 |
| 870721                   | 1030         | 38565                    | 0.050                    | 1.800                       | 3.750 | 7.91                     | 0.052                                | 0.390  | 76                         | 40.8 |
| 870817                   | 1030         | 38592                    | 0.030                    | 0.700                       | 1.120 | 8.05                     | 0.001<                               | 0.082  | 4                          | 23.0 |
| 870921                   | 1005         | 38619                    | 0.060                    | 3.300                       | 0.680 | 7.99                     | 0.021                                | 0.035  | 4<                         | 5.0< |
| 871020                   | 1030         | 38646                    | 0.010<                   | 3.300                       | 0.580 | 7.90                     | 0.004                                | 0.017  | 4<                         | 5.0< |
| 871116                   | 0920         | 38673                    | 0.010                    | 8.500                       | 0.560 | 8.28                     | 0.006                                | 0.026  | 4                          | 3.9  |
| 871214                   | 1030         | 38700                    | 0.030                    | 11.000                      | 0.750 | 8.07                     | 0.017                                | 0.065  | 4                          | 4.2  |

( C O N T D )

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 2 MILES UPSTREAM FROM ST.MARY'S  
 STATION TYPE: RIVER

STATION ID: 04-0013-067-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 0101

LAT: 43 17 13.69 LONG: 081 10 07.91

U T M: 17 0486300.0 4792500.0 4

REGION: 01

DISTANCE: 258.775

| *=INTERIM TEST-NAME: |      | NNO2UR                            | NNO3UR                            | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR                          | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |
|----------------------|------|-----------------------------------|-----------------------------------|-----------------------------|------|---------------------------------|--------------------------------------|--|-----------------------------------|
| SAMPLE               |      | NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NO3-N<br>UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    |      | PO4<br>UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P |  |                                   |
| DATE                 | HOUR | SAMPLE                            |                                   |                             |      |                                 |                                      |  |                                   |
| YYMMDD               | LMT  | NUMBER                            |                                   |                             |      |                                 |                                      |  |                                   |
| MAXIMUM              |      | 0.150                             | 11.000                            | 3.750                       | 8.28 | 0.059                           | 0.390                                | 76   | 40.8                              |
| ARITH MEAN           |      | 0.044                             | 3.932                             | 1.085                       | 8.10 | 0.022                           | 0.092                                | 18   | 15.2                              |
| GEOM MEAN            |      |                                   | 2.331                             | 0.911                       | 8.10 |                                 | 0.061                                |  |                                   |
| MINIMUM              |      | 0.010                             | 0.150                             | 0.560                       | 7.90 | 0.004                           | 0.017                                | 4  | 3.9                               |
| STD DEV (GEOM *)     |      |                                   | 3.393                             | 0.909                       | 0.13 |                                 | 0.105                                |  |                                   |
| # SAMP IN STATISTICS |      | 10                                | 11                                | 11                          | 11   | 10                              | 11                                   | 5  | 6                                 |
| % SAMP (EXCLUDED)    |      | 9                                 |                                   |                             |      | 9                               |                                      | 54   | 45                                |

## 99

STORET CODE: 02  
003  
2870

**DISTANCE: 237.533**

| *INTERIM |      | TEST-NAME: | NN02UR    | NN03UR    | NNTKUR    | PH   | PP04UR    | PPUT      | PSAMF    | RSP     |
|----------|------|------------|-----------|-----------|-----------|------|-----------|-----------|----------|---------|
|          |      |            | N02-N     | N03-N     | K'DAHL N  |      |           |           | PSEUDOMN |         |
| SAMPLE   |      |            | UNF .REAC | UNF .REAC | TOTAL     |      | PO4       | PHOSPHOR  | AERUG.   |         |
| DATE     | HOOR | SAMPLE     | MG/L      | MG/L      | UNF .REAC |      | UNF .REAC | UNF .TOT. | MF       | RESIDUE |
| YYMMDD   | LMT  | NUMBER     | AS N      | AS N      | MG/L      | PH   | MG/L      | MG/L      | CNT      | PARTIC. |
|          |      |            |           |           | AS N      |      | AS P      | AS P      | /100ML   | MG/L    |
| 870121   | 1035 | 38415      | 0.050     | 7.100     | 0.860     | 7.87 | 0.030     | 0.076     | 4<       | 5.0<    |
| 870212   | 1030 | 38442      | 0.030     | 6.500     | 0.580     | 8.10 | 0.030     | 0.049     | 4<       | 7.7     |
| 870317   | 1030 | 38469      | 0.020     | 5.200     | 1.100     | 7.87 | 0.056     | 0.098     | 4<       | 15.2    |
| 870421   | 1030 | 38496      | 0.060     | 5.300     | 1.080     | 7.85 | 0.014     | 0.092     | 4<       | 12.0    |
| 870520   | 1030 | 38523      | 0.130     | 0.130     | 0.940     | 7.90 | 0.036     | 0.102     | 4<       | 36.6    |
| 870617   | 1030 | 38550      | 0.040     | 1.200     | 1.050     | 7.90 | 0.060     | 0.195     | 4<       | 101.8   |
| 870722   | 1030 | 38577      | 0.020     | 0.400     | 0.980     | 8.17 | 0.052     | 0.162     | 4<       | 55.2    |
| 870818   | 1030 | 38604      | 0.030     | 0.300     | 0.850     | 7.93 | 0.075     | 0.170     | 12       | 31.9    |
| 870923   | 1005 | 38631      | 0.030     | 0.800     | 0.800     | 7.88 | 0.156     | 0.228     | 8        | 27.2    |
| 871021   | 1030 | 38658      | 0.010     | 1.500     | 0.610     | 7.78 | 0.017     | 0.043     | 4<       | 4.3     |
| 871118   | 1035 | 38685      | 0.020     | 3.100     | 0.860     | 7.93 | 0.026     | 0.094     | 4<       | 5.8     |
| 871216   | 1030 | 38712      | 0.070     | 14.700    | 1.540     | 7.40 | 0.130     | 0.194     | 52       | 28.9    |

( C O N T D )



## 1987 WATER QUALITY DATA REGION 1

101

B.O.W./ SITE: FOLDENS CREEK  
 SAMPLE POINT: AT CONC. RD. NO. 3 WEST OXFORD TWP.  
 STATION TYPE: RIVER

STATION ID: 04-0013-069-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 36.72 LONG: 080 49 10.30 U T M: 17 0514700.0 4765450.0 4 REGION: 01 DISTANCE: 250.085

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | AS N     |
| 870121               | 1125 | 38418  | 0101     |          | 27.000   | 720.0    |          |          | 6      | 1.0    | 0.020    |
| 870212               | 0935 | 38445  | 0101     |          | 27.000   | 720.0    | 80       | 100      | 6      | 0.5    | 0.040    |
| 870317               | 0935 | 38472  | 0101     |          | 25.000   | 710.0    |          |          | 6      | 2.0    | 0.040    |
| 870421               | 0935 | 38499  | 0101     |          | 26.000   | 720.0    | 224      | 52       | 6      | 12.5   | 0.030    |
| 870520               | 0935 | 38526  | 0101     |          | 21.500   | 655.0    | 360      | 212      |        |        | 0.040    |
| 870617               | 0935 | 38553  | 0101     |          | 27.500   | 735.0    | 1500>    | 1500>    | 6      | 14.0   | 0.020    |
| 870722               | 0935 | 38580  | 0101     |          | 14.500   | 700.0    | 8100     | 4100     | 6      | 18.5   | 0.020    |
| 870818               | 0935 | 38607  | 0101     |          | 30.500   | 715.0    | 1010     | 532      | 6      | 16.0   | 0.010    |
| 870923               | 1140 | 38634  | 0101     |          | 29.660   | 750.0    | 5500     | 1500>    | 6      | 11.0   | 0.030    |
| 871021               | 0935 | 38661  | 0101     | 29.140   | 710.0    | 8600     |          | 2300     | 6      | 6.0    | 0.005<   |
| 871118               | 1125 | 38688  | 0101     | 29.190   | 680.0    | 130      |          | 40AID    | 6      | 7.0    | 0.005<   |
| 871216               | 0935 | 38715  | 0101     | 30.420   | 740.0    | 590      |          | 890      | 6      | 2.5    | 0.002    |
| MAXIMUM              |      | 0.30   |          | 30.420   | 30.500   | 750.0    | 8600     | 4100     |        | 18.5   | 0.040    |
| ARITH MEAN           |      | 0.30   |          | 29.583   | 25.407   | 712.9    | 2733     | 1028     |        | 8.3    | 0.025    |
| GEOM MEAN            |      |        |          | 29.577   | 24.897   | 712.5    |          |          |        | 5.1    |          |
| MINIMUM              |      | 0.30   |          | 29.140   | 14.500   | 655.0    | 80       | 40       |        | 0.5    | 0.002    |
| STD DEV (GEOM *)     |      |        |          | 0.725    | 4.851    | 25.9     |          |          |        | 6.4    |          |
| # SAMP IN STATISTICS |      | 12     |          | 3        | 9        | 12       | 9        | 8        |        | 11     | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 10       | 20       |        |        | 16       |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|----------|
|                      |      | N02-N    | N03-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | MF       | PARTIC. | FTU      |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | CNT      | MG/L    |          |
| 870121               | 1125 | 38418    | 6.600    | 0.450    | 7.95 | 0.025    | 0.042    |          | 5.0<    | 2.30     |
| 870212               | 0935 | 38445    | 6.000    | 0.420    | 7.97 | 0.014    | 0.029    | 4<       | 5.0<    | 3.20     |
| 870317               | 0935 | 38472    | 6.500    | 1.050    | 7.87 | 0.030    | 0.080    |          | 32.8    | 19.00    |
| 870421               | 0935 | 38499    | 6.100    | 0.450    | 7.87 | 0.005    | 0.017    | 4<       | 1.1     | 2.10     |
| 870520               | 0935 | 38526    | 6.100    | 0.560    | 7.87 | 0.010    | 0.032    | 4<       | 4.5     | 2.40     |
| 870617               | 0935 | 38553    | 6.300    | 0.570    | 8.01 | 0.008    | 0.043    | 4<       | 17.2    | 10.40    |
| 870722               | 0935 | 38580    | 5.100    | 0.620    | 8.28 | 0.001    | 0.046    | 4<       | 25.4    | 6.40     |
| 870818               | 0935 | 38607    | 5.100    | 0.410    | 8.10 | 0.020    | 0.043    | 4<       | 8.2     | 5.20     |
| 870923               | 1140 | 38634    | 4.600    | 0.860    | 7.88 | 0.025    | 0.066    | 4<       | 23.4    | 16.40    |
| 871021               | 0935 | 38661    | 5.000    | 0.560    | 7.90 | 0.013    | 0.036    | 4<       | 8.3     | 6.90     |
| 871118               | 1125 | 38688    | 4.600    | 0.440    | 7.95 | 0.006    | 0.022    | 4<       | 5.0<    | 0.77     |
| 871216               | 0935 | 38715    | 7.900    | 0.890    | 7.49 | 0.020    | 0.044    | 4<       | 7.2     | 5.30     |

( C O N T D )



B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT HIGHWAY NO.19  
 STATION TYPE: RIVER

STATION ID: 04-0013-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 11.59 LONG: 080 48 05.96 U T M: 17 0516175.0 4757275.0 4 REGION: 01 DISTANCE: 254.973

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE               | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | TOTAL    |
| DATE                 | HR   | DEPTH                | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | UNF.REAC |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | MG/L     |
|                      |      |                      |          |          |          |          | /100ML   | /100ML   |        |        | AS N     |
| 870121               | 1110 | 38417                | 0101     |          | 18.000   | 630.0    | 20       | 4        | 6      | 0.5    | 0.085    |
| 870212               | 1005 | 38444                | 0101     |          | 18.000   | 680.0    | 52       | 28       | 6      | 0.5    | 0.560    |
| 870317               | 1005 | 38471                | 0101     |          |          |          | 20       | 24       | 6      | 3.0    |          |
| 870421               | 1005 | 38498                | 0101     |          | 15.500   | 550.0    | 144      | 12       | 6      | 16.5   | 0.060    |
| 870520               | 1005 | 38525                | 0101     |          | 18.000   | 615.0    | 188      | 204      |        |        | 0.040    |
| 870617               | 1005 | 38552                | 0101     |          | 15.500   | 550.0    | 930      | 1500>    | 6      | 18.0   | 0.020    |
| 870722               | 1005 | 38579                | 0101     |          | 14.000   | 495.0    | 1000     | 1800     | 6      | 24.0   | 0.060    |
| 870818               | 1005 | 38606                | 0101     |          | 14.000   | 472.0    | 230      | 980      | 6      | 20.5   | 0.045    |
| 870923               | 1110 | 38633                | 0101     | 13.950   |          | 500.0    | 260      | 940      | 6      | 13.0   | 0.010    |
| 871021               | 1005 | 38660                | 0101     | 14.120   |          | 530.0    | 20AID    | 310      | 6      | 6.5    | 0.005<   |
| 871118               | 1110 | 38687                | 0101     | 14.600   |          | 538.0    | 384      | 280      | 6      | 7.0    | 0.355    |
| 871216               | 1005 | 38714                | 0101     | 24.650   |          | 555.0    | 1500>    | 1500>    | 6      | 2.0    | 0.114    |
|                      |      | MAXIMUM              | 0.30     |          | 24.650   | 18.000   | 1000     | 1800     |        | 24.0   | 0.560    |
|                      |      | ARITH MEAN           | 0.30     |          | 16.830   | 16.143   | 295      | 458      |        | 10.1   | 0.135    |
|                      |      | GEOM MEAN            |          |          | 16.317   | 16.052   |          |          |        | 5.5    |          |
|                      |      | MINIMUM              | 0.30     |          | 13.950   | 14.000   | 472.0    | 20       | 4      | 0.5    | 0.010    |
|                      |      | STD DEV (GEOM *)     |          |          | 5.221    | 1.842    | 62.7     |          |        | 8.6    |          |
|                      |      | # SAMP IN STATISTICS | 12       |          | 4        | 7        | 11       | 10       |        | 11     | 10       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          | 8        | 16       |        |        | 9        |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | NO2-N    | NO3-N    | TOTAL    |      | PO4      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | /100ML   | MG/L    |
| 870121               | 1110 | 38417    | 8.100    | 0.850    | 7.97 | 0.018    | 0.102    | 4<       | 5.0<    |
| 870212               | 1005 | 38444    | 6.900    | 1.260    |      | 0.049    | 0.092    | 4<       | 5.0<    |
| 870317               | 1005 | 38471    |          |          |      |          |          | 4<       |         |
| 870421               | 1005 | 38498    | 6.400    | 0.850    | 8.17 | 0.005    | 0.040    | 4<       | 17.3    |
| 870520               | 1005 | 38525    | 0.090    | 0.710    | 7.84 | 0.009    | 0.061    | 4<       | 12.7    |
| 870617               | 1005 | 38552    | 3.100    | 0.580    | 7.78 | 0.010    | 0.032    | 4<       | 5.0<    |
| 870722               | 1005 | 38579    | 2.100    | 0.590    | 7.97 | 0.014    | 0.053    | 4        | 5.0<    |
| 870818               | 1005 | 38606    | 1.500    | 0.760    | 7.80 | 0.025    | 0.056    | 4<       | 15.1    |
| 870923               | 1110 | 38633    | 1.600    | 0.520    | 7.70 | 0.015    | 0.047    | 4<       | 12.4    |
| 871021               | 1005 | 38660    | 0.010    | 2.500    | 7.77 | 0.014    | 0.023    | 4<       | 5.0<    |
| 871118               | 1110 | 38687    | 2.100    | 0.920    | 8.01 | 0.006    | 0.037    | 4<       | 4.7     |
| 871216               | 1005 | 38714    | 13.400   | 1.300    | 7.63 | 0.114    | 0.150    | 4<       | 18.3    |

( C O N T D )

## 104

STORET CODE: 02  
003  
2870

**DISTANCE: 254.973**

[illegible]



B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT N.DORCHESTER & S.W.OXFORD TWP.LINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-071-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 55 12.94 LONG: 080 54 02.72 U T M: 17 0508100.0 4751750.0 4 REGION: 01 DISTANCE: 242.293

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |        |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|--------|
|                      |      |        |          |          |          |          | FECAL    | FECAL    |        |        | NH3-N    |        |
|                      |      |        |          |          |          |          | COLIFORM | STREPCUS |        |        | TOTAL    |        |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | CHLORIDE | CONDUCT. | MF       | MF       |        | WATER  | UNF.REAC |        |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | 25C      | CNT      | CNT      | STREAM | TEMP   | MG/L     |        |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | UMHO/CM  | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |        |
|                      |      | M      |          |          |          | AT 25 C  |          |          |        |        |          |        |
| 870121               | 1045 | 38416  | 0.30     | 0101     |          | 23.500   | 690.0    | 224      | 312    | 6      | 0.5      | 0.110  |
| 870212               | 1020 | 38443  | 0.30     | 0101     |          | 26.500   | 730.0    | 256      | 144    | 6      | 0.5      | 0.470  |
| 870317               | 1020 | 38470  | 0.30     | 0101     |          | 18.000   | 580.0    | 230      | 100    | 6      | 2.0      | 0.285  |
| 870421               | 1020 | 38497  | 0.30     | 0101     |          | 20.000   | 660.0    | 600>     | 100    | 6      | 15.5     | 0.020  |
| 870520               | 1020 | 38524  | 0.30     | 0101     |          | 21.500   | 685.0    | 230      | 352    |        |          | 0.085  |
| 870617               | 1020 | 38551  | 0.30     | 0101     |          | 23.000   | 615.0    | 770      | 660    | 6      | 20.0     | 0.040  |
| 870722               | 1020 | 38578  | 0.30     | 0101     |          | 24.000   | 605.0    | 2100     | 420    | 6      | 25.5     | 0.060  |
| 870818               | 1020 | 38605  | 0.30     | 0101     |          | 24.500   | 590.0    | 1020     | 1000   | 6      | 22.0     | 0.060  |
| 870923               | 1035 | 38632  | 0.30     | 0101     | 26.670   |          | 665.0    | 2800     | 2800   | 6      | 13.0     | 0.035  |
| 871021               | 1020 | 38659  | 0.30     | 0101     | 24.280   |          | 645.0    | 100AID   | 600AID | 6      | 6.5      | 0.005< |
| 871118               | 1045 | 38686  | 0.30     | 0101     | 30.280   |          | 770.0    | 80AID    | 30AID  | 6      | 7.0      | 0.016  |
| 871216               | 1020 | 38713  | 0.30     | 0101     | 31.700   |          | 605.0    | 1400     | 2800   | 6      | 2.5      | 0.079  |
| MAXIMUM              |      | 0.30   |          |          | 31.700   |          | 26.500   | 2800     | 2800   |        | 25.5     | 0.470  |
| ARITH MEAN           |      | 0.30   |          |          | 28.232   |          | 22.625   | 837      | 777    |        | 10.5     | 0.115  |
| GEOM MEAN            |      |        |          |          | 28.078   |          | 22.479   |          | 368    |        | 5.5      |        |
| MINIMUM              |      | 0.30   |          |          | 24.280   |          | 18.000   | 80       | 30     |        | 0.5      | 0.016  |
| STD DEV (GEOM *)     |      |        |          |          | 3.380    |          | 2.696    |          | 4*     |        | 9.2      |        |
| # SAMP IN STATISTICS |      | 12     |          |          | 4        |          | 8        | 11       | 12     |        | 11       | 8      |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          | 8        |        |        |          |        |

| *=INTERIM TEST-NAME: |      | NN02UR | NN03UR | NNTKUR   | PH       | PP04UR   | PPUT  | PSAMF    | RSP     |       |
|----------------------|------|--------|--------|----------|----------|----------|-------|----------|---------|-------|
|                      |      |        |        | K'DAHL N |          |          |       | PSEUDOMN |         |       |
|                      |      |        |        | TOTAL    |          |          |       | AERUG.   |         |       |
| SAMPLE               |      | NO2-N  | NO3-N  | UNF.REAC | UNF.REAC | UNF.REAC | PO4   | PHOSPHOR | RESIDUE |       |
| DATE                 | HR   | MG/L   | MG/L   | MG/L     | MG/L     | MG/L     | MG/L  | MG/L     | PARTIC. |       |
| YYMMDD               | LMT  | AS N   | AS N   | AS N     | AS N     | AS P     | AS P  | /100ML   | MG/L    |       |
| 870121               | 1045 | 38416  | 0.090  | 7.500    | 1.060    | 7.82     | 0.040 | 0.116    | 4<      | 24.7  |
| 870212               | 1020 | 38443  | 0.030  | 5.800    | 1.250    | 7.83     | 0.068 | 0.101    | 4<      | 6.1   |
| 870317               | 1020 | 38470  | 0.020  | 5.800    | 1.340    | 7.85     | 0.057 | 0.126    | 4<      | 29.6  |
| 870421               | 1020 | 38497  | 0.070  | 6.100    | 1.060    | 7.77     | 0.010 | 0.080    | 4<      | 13.6  |
| 870520               | 1020 | 38524  | 0.150  | 0.150    | 0.850    | 7.81     | 0.028 | 0.072    | 4<      | 5.0<  |
| 870617               | 1020 | 38551  | 0.070  | 1.700    | 0.870    | 7.87     | 0.027 | 0.057    | 4<      | 5.0<  |
| 870722               | 1020 | 38578  | 0.060  | 0.900    | 1.950    | 8.01     | 0.080 | 0.530    | 4<      | 287.4 |
| 870818               | 1020 | 38605  | 0.050  | 0.700    | 0.780    | 7.86     | 0.066 | 0.107    | 4<      | 7.7   |
| 870923               | 1035 | 38632  | 0.030  | 1.800    | 0.800    | 7.81     | 0.046 | 0.086    | 4<      | 12.4  |
| 871021               | 1020 | 38659  | 0.020  | 2.900    | 0.580    | 7.90     | 0.035 | 0.054    | 4<      | 6.5   |
| 871118               | 1045 | 38686  | 0.050  | 4.200    | 0.780    | 8.02     | 0.010 | 0.043    | 4<      | 3.3   |
| 871216               | 1020 | 38713  | 0.070  | 16.200   | 1.540    | 7.41     | 0.127 | 0.164    | 24      | 15.8  |

( C O N T D )

STORET CODE: 02  
003  
2870

**DISTANCE: 242.293**

[illegible]

B.O.W./ SITE: CEDER CREEK  
 SAMPLE POINT: AT EAST OXFORD TWP.RD.NO.5  
 STATION TYPE: RIVER

STATION ID: 04-0013-072-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 04 10.14 LONG: 080 44 04.94

U T M: 17 0521600.0 4768350.0 4

REGION: 01

DISTANCE: 257.256

| *=INTERIM | TEST-NAME: | FWSADP               | FGPROJ | ALKT     | CLIDUR   | CLIDUR | COND25  | FCMF     | FSMF     | FWSTRC | FWTEMP |
|-----------|------------|----------------------|--------|----------|----------|--------|---------|----------|----------|--------|--------|
|           |            |                      |        |          |          |        |         | FECAL    | FECAL    |        |        |
|           |            |                      |        |          |          |        |         | COLIFORM | STREPCUS |        |        |
|           |            |                      |        |          |          |        |         | MF       | MF       |        |        |
| SAMPLE    | DATE       | DATE                 | DATE   | DATE     | DATE     | DATE   | DATE    | CNT      | CNT      | STREAM | WATER  |
| DATE      | TIME       | TIME                 | TIME   | TIME     | TIME     | TIME   | TIME    | /100ML   | /100ML   | COND.  | TEMP   |
| YYMMDD    | LMT        | NUMBER               | DEPTH  | SUB-PROJ | MG/L     | MG/L   | UMHO/CM |          |          |        | DEG.C  |
|           |            |                      | M      | CODE     | AS CAC03 | AS CL  | AT 25 C |          |          |        |        |
| 870121    | 1140       | 38419                | 0.30   | 0101     |          |        | 698.0   | 32       | 20       | 6      | 1.0    |
| 870212    | 0920       | 38446                | 0.30   | 0101     |          |        | 700.0   | 208      | 204      | 6      | 0.5    |
| 870317    | 0920       | 38473                | 0.30   | 0101     |          |        | 595.0   | 44       | 68       | 6      | 0.5    |
| 870421    | 0920       | 38500                | 0.30   | 0101     |          |        | 640.0   | 60       | 40       | 6      | 12.0   |
| 870520    | 0920       | 38527                | 0.30   | 0101     |          |        | 735.0   | 600>     | 236      |        |        |
| 870617    | 0920       | 38554                | 0.30   | 0101     |          |        | 640.0   | 1150     | 650      | 6      | 16.0   |
| 870722    | 0920       | 38581                | 0.30   | 0101     |          |        | 685.0   | 3300     | 760      | 6      | 22.0   |
| 870818    | 0920       | 38608                | 0.30   | 0101     |          |        | 570.0   | 1300     | 272      | 6      | 19.5   |
| 870923    | 1205       | 38635                | 0.30   | 0101     | 166.1    | 18.250 | 655.0   | 800AID   | 460      | 6      | 11.5   |
| 871021    | 0920       | 38662                | 0.30   | 0101     |          | 21.120 | 605.0   | 40AID    | 150      | 6      | 6.5    |
| 871118    | 1140       | 38689                | 0.30   | 0101     |          | 23.610 | 680.0   | 48       | 40AID    | 6      | 7.0    |
| 871216    | 0920       | 38716                | 0.30   | 0101     |          | 35.060 | 610.0   | 600>     | 600>     | 6      | 2.5    |
|           |            | MAXIMUM              | 0.30   |          | 166.1    | 35.060 | 735.0   | 3300     | 760      |        | 22.0   |
|           |            | ARITH MEAN           | 0.30   |          | 166.1    | 24.510 | 651.1   | 698      | 264      |        | 9.0    |
|           |            | GEOM MEAN            |        |          |          | 23.767 | 649.3   |          |          |        | 4.7    |
|           |            | MINIMUM              | 0.30   |          | 166.1    | 18.250 | 570.0   | 32       | 20       |        | 0.5    |
|           |            | STD DEV (GEOM *)     |        |          |          | 7.366  | 49.9    |          |          |        | 7.8    |
|           |            | # SAMP IN STATISTICS | 12     |          | 1        | 4      | 12      | 10       | 11       |        | 11     |
|           |            | % SAMP (EXCLUDED)    |        |          |          |        |         | 16       | 8        |        |        |

| *=INTERIM | TEST-NAME: | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|-----------|------------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|           |            | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|           |            | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
|           |            | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
|           |            | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | PARTIC. |
|           |            | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L    |
| 870121    | 1140       | 38419    | 0.020    | 0.020    | 8.300    | 7.93 | 0.022    | 0.040    | 4<       | 5.0<    |
| 870212    | 0920       | 38446    | 0.110    | 0.030    | 5.500    | 7.84 | 0.037    | 0.057    | 4<       | 5.0<    |
| 870317    | 0920       | 38473    | 0.055    | 0.010    | 6.600    | 8.00 | 0.036    | 0.058    | 4<       | 5.5     |
| 870421    | 0920       | 38500    | 0.005    | 0.040    | 6.500    | 8.02 | 0.006    | 0.029    | 4<       | 5.0<    |
| 870520    | 0920       | 38527    | 0.035    | 0.040    | 5.800    | 7.94 | 0.014    | 0.025    | 4<       | 2.3     |
| 870617    | 0920       | 38554    | 0.030    | 0.080    | 1.400    | 7.88 | 0.044    | 0.090    | 4<       | 9.4     |
| 870722    | 0920       | 38581    | 0.050    | 0.120    | 3.100    | 7.98 | 0.032    | 0.082    | 4        | 8.0     |
| 870818    | 0920       | 38608    | 0.070    | 0.040    | 0.600    | 7.81 | 0.096    | 0.166    | 4<       | 11.9    |
| 870923    | 1205       | 38635    | 0.010    | 0.020    | 2.400    | 7.95 | 0.030    | 0.049    | 4<       | 2.8     |
| 871021    | 0920       | 38662    | 0.005<   | 0.010    | 1.200    | 8.13 | 0.016    | 0.105    | 4<       | 20.0    |
| 871118    | 1140       | 38689    | 0.006    | 0.010<   | 2.500    | 7.93 | 0.014    | 0.048    | 4<       | 5.0<    |
| 871216    | 0920       | 38716    | 0.029    | 0.040    | 13.100   | 7.54 | 0.115    | 0.134    | 172      | 9.8     |

( C O N T D )

## 108

STORET CODE: 02  
003  
2870

**DISTANCE: 257.256**

| *=INTERIM                | TEST-NAME:  | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PH    | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG,<br>MF<br>CNT<br>/100ML | RSP                        |
|--------------------------|-------------|--|---|---|---|-------|---|--|--|----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                     |   |   |   | PH    |   |  |  | RESIDUE<br>PARTIC.<br>MG/L |
|                          |             | MAXIMUM  | 0.110                                       | 0.120                                       | 13.100  | 1.020 | 8.13                                      | 0.115  | 0.166  | 20.0                       |
|                          |             | ARITH MEAN   | 0.038                                       | 0.041                                       | 4.750   | 0.682 | 7.91                                      | 0.038  | 0.074  | 8.7                        |
|                          |             | GEOM MEAN  |   |   | 3.445   | 0.655 | 7.91                                      | 0.028  | 0.063  |                            |
|                          |             | MINIMUM  | 0.005                                       | 0.010                                       | 0.600   | 0.360 | 7.54                                      | 0.006  | 0.025  | 2.3                        |
|                          |             | STD DEV (GEOM *)                                     |   |   | 3.629   | 0.191 | 0.14                                      | 0.034  | 0.043  |                            |
| # SAMP IN STATISTICS     |             | 11   | 11  | 12  | 12  | 12    | 12  | 12   | 2  | 8                          |
| % SAMP (EXCLUDED)        |             | 8  | 8   |   |   |       |   |  | 83   | 33                         |

## 1987 WATER QUALITY DATA REGION 1

109

B.O.W./ SITE: NEWBIGGIN CREEK  
 SAMPLE POINT: AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2  
 STATION TYPE: RIVER

STATION ID: 04-0013-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 43 04.71 LONG: 081 40 11.50 U T M: 17 0445150.0 4729500.0 4 REGION: 01 DISTANCE: 116.192

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          |          |          |          |          |          |
| 870127               | 0830 | 39409  | 0101     | 327.0    | 0.80     |          | 46.500   | 960.0    | 0.001    | 12.0     | 410      |
| 870224               | 0825 | 39422  | 0101     | 168.0    | 4.57     |          | 31.000   | 515.0    | 0.004    | 11.5     | 450      |
| 870324               | 1000 | 39437  | 0101     | 224.0    | 2.76     |          | 38.000   | 650.0    | 0.004    | 13.5     | 40AID    |
| 870428               | 1015 | 39453  | 0101     | 187.0    | 2.29     |          | 38.000   | 730.0    | 0.003    | 10.5     | 190      |
| 870526               | 0740 | 39469  | 0101     | 194.0    | 15.70    |          | 85.500   | 910.0    | 0.006    | 6.5      | 1500>    |
| 871027               | 0805 | 39539  | 0101     | 167.0    | 16.00    | 83.990   |          | 790.0    | 0.008    | 7.5      | 7000AID  |
| 871125               | 0800 | 39555  | 0101     | 114.6    | 5.54     | 56.460   |          | 645.0    | 0.008    | 11.5     | 5600     |
| MAXIMUM              |      | 0.30   |          | 327.0    | 16.00    | 83.990   | 85.500   | 960.0    | 0.008    | 13.5     | 7000     |
| ARITH MEAN           |      | 0.30   |          | 197.4    | 6.81     | 70.225   | 47.800   | 742.9    | 0.005    | 10.4     | 2282     |
| GEOM MEAN            |      |        |          | 188.8    | 4.40     | 68.863   | 44.676   | 728.4    | 0.004    | 10.1     |          |
| MINIMUM              |      | 0.30   |          | 114.6    | 0.80     | 56.460   | 31.000   | 515.0    | 0.001    | 6.5      | 40       |
| STD DEV (GEOM *)     |      |        |          | 66.2     | 6.36     | 19.467   | 21.779   | 156.8    | 0.003    | 2.5      |          |
| # SAMP IN STATISTICS |      | 7      |          | 7        | 7        | 2        | 5        | 7        | 7        | 7        | 6        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          | 14       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH     | PPO4UR   |       |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|--------|----------|-------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |        |          |       |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |        | P04      |       |
|                      |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF.REAC |       |
| SAMPLE               |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |        | MG/L     |       |
| DATE                 | HOUR | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH     | AS P     |       |
| YYMMDD               | LMT  | NUMBER   |        |        |          |          |          |          |          |        |          |       |
| 870127               | 0830 | 39409    | 10AID  | 6      | 1.0      | 0.135    | 0.030    | 8.000    | 0.940    | 0.003< | 7.73     | 0.069 |
| 870224               | 0825 | 39422    | 600>   | 6      | 1.0      | 0.785    | 0.140    | 3.800    | 2.150    | 0.004  | 7.88     | 0.286 |
| 870324               | 1000 | 39437    | 20AID  | 6      | 6.0      | 0.145    | 0.040    | 4.100    | 0.820    | 0.003< | 8.21     | 0.081 |
| 870428               | 1015 | 39453    | 160    | 6      | 9.0      | 0.985    | 0.770    | 3.200    | 2.880    | 0.003< | 7.97     | 0.132 |
| 870526               | 0740 | 39469    | 220    | 6      | 16.0     | 0.100<   | 1.370    | 9.100    | 16.800   | 0.003< | 8.43     | 0.816 |
| 871027               | 0805 | 39539    | 1200   | 6      | 8.0      | 1.000    | 0.040    | 2.400    | 5.050    | 0.005  | 8.47     | 0.255 |
| 871125               | 0800 | 39555    | 10300  | 6      | 4.0      | 0.938    | 0.110    | 16.600   | 2.400    | 0.060< | 8.04     | 0.196 |
| MAXIMUM              |      | 10300    |        | 16.0   | 1.000    | 1.370    | 16.600   | 16.800   | 0.005    | 8.47   | 0.816    |       |
| ARITH MEAN           |      | 1985     |        | 6.4    | 0.665    | 0.357    | 6.743    | 4.434    | 0.004    | 8.10   | 0.262    |       |
| GEOM MEAN            |      |          |        | 4.3    |          | 0.134    | 5.460    | 2.672    |          | 8.10   | 0.189    |       |
| MINIMUM              |      | 10       |        | 1.0    | 0.135    | 0.030    | 2.400    | 0.820    | 0.004    | 7.73   | 0.069    |       |
| STD DEV (GEOM *)     |      |          |        | 5.3    |          | 0.518    | 5.023    | 5.632    |          | 0.28   | 0.258    |       |
| # SAMP IN STATISTICS |      | 6        |        | 7      | 6        | 7        | 7        | 7        | 2        | 7      | 7        |       |
| % SAMP (EXCLUDED)    |      | 14       |        |        | 14       |          |          |          | 71       |        |          |       |

( C O N T D )

B.O.W./ SITE: NEWBIGGIN CREEK  
 SAMPLE POINT: AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2  
 STATION TYPE: RIVER

STATION ID: 04-0013-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 43 04.71 LONG: 081 40 11.50

U T M: 17 0445150.0 4729500.0 4

REGION: 01

DISTANCE: 116.192

| *=INTERIM TEST-NAME: |      | PPUT     | PSAMF    | RSP     | TURB     | ZNUT     |       |
|----------------------|------|----------|----------|---------|----------|----------|-------|
|                      |      | PHOSPHOR | PSEUDOMN |         |          | ZINC     |       |
| SAMPLE               |      | UNF.TOT. | MF       | RESIDUE |          | UNF.TOT. |       |
| DATE                 | HOUR | MG/L     | CNT      | PARTIC. | TURB'ITY | MG/L     |       |
| YYMMDD               | LMT  | AS P     | /100ML   | MG/L    | FTU      | AS ZN    |       |
| 870127               | 0830 | 39409    | 0.096    | 4<      | 11.3     | 15.40    | 0.003 |
| 870224               | 0825 | 39422    | 0.395    | 8       | 15.5     | 50.00    | 0.014 |
| 870324               | 1000 | 39437    | 0.132    | 4<      | 31.4     | 34.00    | 0.005 |
| 870428               | 1015 | 39453    | 0.198    | 4<      | 11.9     | 16.90    | 0.003 |
| 870526               | 0740 | 39469    | 0.850    | 148     | 26.8     | 40.00    | 0.005 |
| 871027               | 0805 | 39539    | 0.860    | 4C      | 122.8    | 138.00   | 0.016 |
| 871125               | 0800 | 39555    | 0.505    | 150C    | 175.0    | 215.00   | 0.036 |
| MAXIMUM              |      | 0.860    | 150      | 175.0   | 215.00   | 0.036    |       |
| ARITH MEAN           |      | 0.434    | 78       | 56.4    | 72.76    | 0.012    |       |
| GEOM MEAN            |      | 0.323    |          | 32.4    | 47.24    | 0.008    |       |
| MINIMUM              |      | 0.096    | 4        | 11.3    | 15.40    | 0.003    |       |
| STD DEV (GEOM *)     |      | 0.322    |          | 65.4    | 75.27    | 0.012    |       |
| # SAMP IN STATISTICS |      | 7        | 4        | 7       | 7        | 7        |       |
| % SAMP (EXCLUDED)    |      |          | 42       |         |          |          |       |

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX CO.ROAD NO.45  
 STATION TYPE: RIVER

STATION ID: 04-0013-075-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 41 56.74 LONG: 081 39 52.09 U T M: 17 0445575.0 4727400.0 4 REGION: 01 DISTANCE: 112.455

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | TOTAL    |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | UNF.REAC |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | MG/L     |
|                      |      |        |          |          |          |          | /100ML   | /100ML   |        |        | AS N     |
| 870127               | 0745 | 39408  | 0101     |          | 45.500   | 780.0    | 148      | 16       | 6      | 1.0    | 0.155    |
| 870324               | 0940 | 39436  | 0101     |          | 15.500   | 505.0    | 130      | 110      | 6      | 5.0    | 0.075    |
| 870428               | 1000 | 39452  | 0101     |          | 39.000   | 600.0    | 30AID    | 20AID    | 6      | 12.0   | 0.015    |
| 870526               | 0730 | 39468  | 0101     |          | 41.500   | 650.0    | 52       | 24       | 6      | 17.0   | 0.010    |
| 870623               | 0805 | 39483  | 0101     |          | 48.500   | 550.0    | 32       | 84       | 6      | 23.0   | 0.010    |
| 870728               | 0705 | 39496  | 0101     |          |          | 535.0    | 40AID    | 10AID    | 6      | 24.0   | 0.015    |
| 870825               | 0715 | 39510  | 0101     |          | 57.500   | 595.0    | 40AID    | 80AID    | 6      | 19.0   | 0.055    |
| 870929               | 0800 | 39524  | 0101     | 55.690   |          | 650.0    | 50AID    | 60AID    | 6      | 12.0   | 0.010    |
| 871027               | 0745 | 39538  | 0101     | 49.890   |          | 630.0    | 560      | 90AID    | 6      | 8.0    | 0.081    |
| 871125               | 0735 | 39554  | 0101     | 81.630   |          | 765.0    | 4300     | 4900     | 6      | 4.0    | 0.094    |
| MAXIMUM              |      | 0.30   |          | 81.630   | 57.500   | 780.0    | 4300     | 4900     |        | 24.0   | 0.155    |
| ARITH MEAN           |      | 0.30   |          | 62.403   | 41.250   | 626.0    | 538      | 539      |        | 12.5   | 0.052    |
| GEOM MEAN            |      |        |          | 60.984   | 38.354   | 620.2    | 106      | 66       |        | 9.1    | 0.032    |
| MINIMUM              |      | 0.30   |          | 49.890   | 15.500   | 505.0    | 30       | 10       |        | 1.0    | 0.010    |
| STD DEV (GEOM *)     |      |        |          | 16.901   | 14.162   | 91.0     | 5*       | 6*       |        | 8.1    | 0.049    |
| # SAMP IN STATISTICS |      | 10     |          | 3        | 6        | 10       | 10       | 10       |        | 10     | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |        |        |          |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|----------|
|                      |      | N02-N    | N03-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   |         |          |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | RESIDUE | TURB'ITY |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | PARTIC. | FTU      |
|                      |      |          |          |          |      |          |          | /100ML   | MG/L    |          |
| 870127               | 0745 | 39408    | 6.200    | 0.730    | 8.11 | 0.027    | 0.059    | 4<       | 11.3    | 10.90    |
| 870324               | 0940 | 39436    | 5.400    | 0.740    | 8.14 | 0.068    | 0.142    | 4<       | 44.5    | 46.00    |
| 870428               | 1000 | 39452    | 4.200    | 0.680    | 8.21 | 0.011    | 0.088    | 4<       | 27.0    | 31.00    |
| 870526               | 0730 | 39468    | 2.300    | 1.040    | 8.44 | 0.014    | 0.154    | 4<       | 44.7    | 43.00    |
| 870623               | 0805 | 39483    | 1.600    | 1.360    | 8.44 | 0.004    | 0.180    | 4<       | 79.5    | 81.00    |
| 870728               | 0705 | 39496    | 1.100    | 1.700    | 8.33 | 0.009    | 0.235    | 4<       | 135.5   |          |
| 870825               | 0715 | 39510    | 1.300    | 1.250    | 8.42 | 0.094    | 0.215    | 4<       | 131.8   | 128.00   |
| 870929               | 0800 | 39524    | 2.400    | 0.940    | 8.25 | 0.062    | 0.170    | 4<       | 75.5    | 98.00    |
| 871027               | 0745 | 39538    | 2.700    | 0.950    | 8.17 | 0.038    | 0.180    | 4<       | 34.3    | 19.60    |
| 871125               | 0735 | 39554    | 7.700    | 1.220    | 8.13 | 0.105    | 0.202    | 36       | 49.5    | 57.00    |

( C O N T D )

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX CO.ROAD NO.45  
 STATION TYPE: RIVER

STATION ID: 04-0013-075-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 41 56.74 LONG: 081 39 52.09

U T M: 17 0445575.0 4727400.0 4

REGION: 01

DISTANCE: 112.455

| *=INTERIM TEST-NAME: |     | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------------------|-----|----------|----------|----------|------|----------|----------|----------|---------|----------|
|                      |     | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |          |
|                      |     | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   |         |          |
| SAMPLE               |     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | RESIDUE | TURB'ITY |
| DATE                 | HR  | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | PARTIC. | FTU      |
| YYMMDD               | LMT | NUMBER   | AS N     | AS N     |      |          |          | /100ML   | MG/L    |          |
| MAXIMUM              |     | 0.080    | 7.700    | 1.700    | 8.44 | 0.105    | 0.235    | 36       | 135.5   | 128.00   |
| ARITH MEAN           |     | 0.038    | 3.490    | 1.061    | 8.26 | 0.043    | 0.162    | 36       | 63.4    | 57.17    |
| GEOM MEAN            |     | 0.034    | 2.862    | 1.019    | 8.26 | 0.027    | 0.152    |          | 50.6    | 45.01    |
| MINIMUM              |     | 0.020    | 1.100    | 0.680    | 8.11 | 0.004    | 0.059    | 36       | 11.3    | 10.90    |
| STD DEV (GEOM *)     |     | 0.019    | 2.274    | 0.324    | 0.13 | 0.037    | 0.055    |          | 42.3    | 38.43    |
| # SAMP IN STATISTICS |     | 10       | 10       | 10       | 10   | 10       | 10       | 1        | 10      | 9        |
| % SAMP (EXCLUDED)    |     |          |          |          |      |          |          | 90       |         |          |



## 113

STORET CODE: 02  
003  
2980

**DISTANCE: 4.506**

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43 U T M: 17 0386125.0 4716225.0 4 REGION: 01 DISTANCE: 4.506

| *=INTERIM TEST-NAME:     |              | FWSADP                    | FGPROJ                      | ALKT                             | ASUT                                 | BOD5<br>BOD<br>5 DAY     | CCNAUR<br>CYANIDE<br>AVAIL | CDUT                                 | CLIDUR                                | CLIDUR                                 | COND25                                |
|--------------------------|--------------|---------------------------|-----------------------------|----------------------------------|--------------------------------------|--------------------------|----------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>DEPTH<br>NUMBER | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | TOT.DEM.<br>MG/L<br>AS O | UNF.REAC<br>MG/L<br>AS HCN | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C |
| 871209                   | 1300         | 42629                     | 0103                        | 164.6                            |                                      |                          |                            | 0.0002<                              |                                       |  | 656.0                                 |
| 871222                   | 1100         | 42630                     | 0103                        | 107.4                            |                                      |                          |                            | 0.0002<                              |                                       |  | 390.0                                 |
|                          |              | MAXIMUM                   | 0.30                        | 210.0                            | 0.001                                | 4.52                     | 0.002                      | 0.0010                               | 245.450                               | 24.000                                 | 1260.0                                |
|                          |              | ARITH MEAN                | 0.30                        | 128.3                            | 0.001 <A                             | 1.62                     | 0.001<A                    | 0.0010                               | 68.852                                | 18.667                                 | 429.6                                 |
|                          |              | GEOM MEAN                 |                             | 124.6                            |                                      | 1.34                     |                            |                                      | 37.426                                | 18.433                                 | 404.9                                 |
|                          |              | MINIMUM                   | 0.30                        | 90.9                             | 0.001                                | 0.65                     | 0.001                      | 0.0010                               | 14.500                                | 16.000                                 | 266.0                                 |
|                          |              | STD DEV (GEOM *)          |                             | 33.1                             |                                      | 1.17                     |                            |                                      | 99.027                                | 3.342                                  | 177.2                                 |
|                          |              | # SAMP IN STATISTICS      | 42                          | 40                               | 3                                    | 11                       | 8                          | 1                                    | 5                                     | 6                                      | 41                                    |
|                          |              | % SAMP (EXCLUDED)         |                             |                                  | 70                                   |                          | 11                         | 97                                   |                                       |  |                                       |

| *=INTERIM TEST-NAME:     |              | CRUT                                  | CUUT                                | DO                                  | FCMF<br>FECAL<br>COLIFORM | FEUT<br>IRON              | FSMF<br>FECAL<br>STREPCUS | FWSTRC          | FWTEMP                 | HGUT                                 | NIUT                                |
|--------------------------|--------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------|-----------------|------------------------|--------------------------------------|-------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISSOLVED<br>OXYGEN<br>MG/L<br>AS O | MF<br>CNT<br>/100ML       | UNF.TOT.<br>MG/L<br>AS FE | MF<br>CNT<br>/100ML       | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | MERCURY<br>UNF.TOT.<br>UG/L<br>AS HG | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI |
| 870101                   |              | 42604                                 | 0.003                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870107                   | 0850         | 40402                                 | 0.001                               | 7.0                                 | 100                       | 0.800                     | 44                        | 6               | 1.0                    | 0.08                                 | 0.002                               |
| 870202                   | 0830         | 40412                                 | 0.001                               | 9.0                                 | 24                        | 0.180                     | 4<                        | 4               | 1.0                    | 0.17                                 | 0.002<                              |
| 870303                   | 0830         | 40422                                 | 0.016                               | 11.0                                | 230                       | 14.0000                   | 800                       | 3               | 1.0                    | 0.150                                | 0.018                               |
| 870327                   | 1005         | 44412                                 | 0.002                               |                                     |                           |                           |                           |                 |                        | 0.02                                 |                                     |
| 870331                   | 0840         | 40432                                 |                                     | 7.0                                 | 80AID                     |                           | 10AID                     | 3               | 10.0                   |                                      |                                     |
| 870508                   | 1430         | 42605                                 | 0.003                               |                                     |                           |                           |                           |                 |                        | 0.01                                 |                                     |
| 870511                   | 0825         | 40442                                 | 0.001                               | 12.0                                | 220                       | 0.440                     | 4                         | 6               | 16.0                   | 0.01                                 | 0.002<                              |
| 870514                   | 1330         | 42600                                 | 0.004                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870519                   | 1430         | 42601                                 | 0.003                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870525                   | 1430         | 42602                                 | 0.003                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870602                   | 1130         | 42603                                 | 0.004                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870615                   | 1500         | 42606                                 | 0.001                               |                                     |                           |                           |                           |                 |                        | 0.02                                 |                                     |
| 870624                   | 1430         | 42608                                 | 0.001                               |                                     |                           |                           |                           |                 |                        | 0.01                                 |                                     |
| 870707                   | 0830         | 40462                                 | 0.017                               |                                     | 72                        | 2.900                     | 4<                        | 6               | 25.0                   | 0.03                                 | 0.019                               |
|                          | 1230         | 42609                                 | 0.004                               |                                     |                           |                           |                           |                 |                        | 0.01                                 |                                     |
| 870709                   | 1115         | 42610                                 | 0.004                               |                                     |                           |                           |                           |                 |                        | 0.01 <                               |                                     |
| 870722                   | 1330         | 42611                                 | 0.004                               |                                     |                           |                           |                           |                 |                        | 0.02                                 |                                     |
| 870804                   | 1230         | 42612                                 | 0.002                               |                                     |                           |                           |                           |                 |                        | 0.01                                 |                                     |
| 870805                   | 0900         | 40472                                 | 0.001                               | 0.003                               | 192                       | 0.950                     | 28                        | 6               | 24.0                   | 0.05                                 | 0.002                               |
| 870806                   | 1430         | 42613                                 |                                     | NO DATAISM                          |                           |                           |                           |                 |                        | 0.01                                 |                                     |
| 870811                   | 1300         | 42614                                 |                                     | 0.002                               |                           |                           |                           |                 |                        | NO DATAISS                           |                                     |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

| *=INTERIM |      | TEST-NAME:           | CRUT     | CUUT     | DO       | FCMF     | FEUT     | FSMF     | FWSTRC | FWTEMP | HGUT       | NIUT     |
|-----------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|------------|----------|
|           |      |                      | CHROMIUM | COPPER   | DISOLVED | FECAL    | IRON     | FECAL    |        |        | MERCURY    | NICKEL   |
|           |      |                      | UNF.TOT. | UNF.TOT. | OXYGEN   | COLIFORM | UNF.TOT. | STREPCUS |        |        | UNF.TOT.   | UNF.TOT. |
|           |      |                      | MG/L     | MG/L     | MG/L     | MF       | MG/L     | MF       |        |        | UG/L       | MG/L     |
| SAMPLE    | DATE | TIME                 | AS CR    | AS CU    | AS O     | /100ML   | AS FE    | /100ML   | STREAM | WATER  | AS HG      | AS NI    |
| YYMMDD    | MMDD | LT                   | NUMBER   |          |          |          |          |          | COND.  | TEMP   |            |          |
|           |      |                      |          |          |          |          |          |          |        | DEG.C  |            |          |
| 870825    | 1100 | 42615                |          |          |          |          |          |          |        |        | 0.01       |          |
| 870827    | 1100 | 42616                |          |          |          |          |          |          |        |        | 0.01       |          |
| 870902    | 0830 | 40482                | 0.003    | 0.002    |          | 220      | 0.780    | 84       | 6      | 20.0   | 0.03       | 0.002    |
| 870908    | 1300 | 42617                |          | 0.002    |          |          |          |          |        |        | 0.01 <     |          |
| 870917    | 1200 | 42618                |          | 0.003    |          |          |          |          |        |        | 0.02       |          |
| 870923    | 0800 | 42619                |          | 0.004    |          |          |          |          |        |        | 0.01       |          |
| 870929    | 0900 | 42620                |          | 0.003    |          |          |          |          |        |        | 0.01       |          |
| 871001    | 0900 | 42621                |          | 0.003    |          |          |          |          |        |        | 0.02       |          |
| 871006    | 0830 | 40492                | 0.010    | 0.009    |          | 100      | 2.800    | 150      | 6      | 12.0   | 0.04       | 0.006    |
|           | 1200 | 42622                |          | 0.004    |          |          |          |          |        |        | 0.01       |          |
| 871021    | 0900 | 42623                |          | 0.003    |          |          |          |          |        |        | 0.01 <     |          |
| 871027    | 0900 | 42624                |          | 0.004    |          |          |          |          |        |        | 0.01 <     |          |
| 871102    | 0845 | 40502                | 0.007    | 0.004    |          | 60AID    | 1.600    | 70AID    | 6      | 1.0    | NO DATA SS | 0.005    |
| 871110    | 0900 | 42625                |          | 0.003    |          |          |          |          |        |        | 0.01 <     |          |
| 871123    |      | 42626                |          | 0.002    |          |          |          |          |        |        | 0.01 <     |          |
| 871126    | 1030 | 42627                |          | 0.009    |          |          |          |          |        |        | 0.01       |          |
| 871130    | 1230 | 42628                |          | 0.010    |          |          |          |          |        |        | 0.01       |          |
| 871201    | 0840 | 40512                | 0.020<   | 0.007    |          | 500AID   | 3.500    | 1100     | 3      | 5.0    |            | 0.020<   |
| 871209    | 1300 | 42629                |          | 0.010    |          |          |          |          |        |        | 0.01 <     |          |
| 871222    | 1100 | 42630                |          | 0.017    |          |          |          |          |        |        | 0.02       |          |
|           |      | MAXIMUM              | 0.017    | 0.017    | 12.0     | 500      | 14.0000  | 1100     |        | 25.0   | 0.17       | 0.019    |
|           |      | ARITH MEAN           | 0.006    | 0.005    | 9.2      | 163      | 2.795    | 254      |        | 10.5   | 0.03       | 0.008    |
|           |      | GEOM MEAN            |          | 0.004    | 9.0      | 122      | 1.405    |          |        | 5.4    |            |          |
|           |      | MINIMUM              | 0.001    | 0.001    | 7.0      | 24       | 0.180    | 4        |        | 1.0    | 0.01       | 0.002    |
|           |      | STD DEV (GEOM *)     |          | 0.004    | 2.3      | 2*       | 4.100    |          |        | 9.5    |            |          |
|           |      | # SAMP IN STATISTICS | 9        | 39       | 5        | 11       | 10       | 9        |        | 11     | 26         | 7        |
|           |      | % SAMP (EXCLUDED)    | 10       |          |          |          |          | 18       |        |        | 31         | 30       |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

| LAT: 42 35 31.11 |      |                  | LONG: 082 23 16.43       |                                |                             | U T M: 17 0386125.0 4716225.0 4 |                             |                             | REGION: 01                |      | DISTANCE: 4.506              |                           |
|------------------|------|------------------|--------------------------|--------------------------------|-----------------------------|---------------------------------|-----------------------------|-----------------------------|---------------------------|------|------------------------------|---------------------------|
| *=INTERIM        |      | TEST-NAME:       | NNHTUR<br>NH3-N<br>TOTAL | NNOTFR<br>NO2+NO3N<br>FIL.REAC | NNO2FR<br>NO2-N<br>FIL.REAC | NNO2UR<br>NO2-N<br>UNF.REAC     | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT.  | PH   | PHNOL<br>PHENOLS<br>UNF-REAC | PP04FR<br>PO4<br>FIL.REAC |
| SAMPLE<br>DATE   | HOUR | SAMPLE<br>NUMBER | UNF.REAC<br>MG/L<br>AS N | FIL.REAC<br>MG/L<br>AS N       | FIL.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N        | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH   | UNF-REAC<br>UG/L<br>PHENOL   | FIL.REAC<br>MG/L<br>AS P  |
| 870101           |      | 42604            |                          | 2.500                          | 0.0525                      |                                 |                             |                             | 0.003<                    | 8.24 |                              | 0.0205                    |
| 870107           | 0850 | 40402            | 0.045                    |                                |                             | 0.010                           | 3.900                       | 0.740                       | 0.005                     | 8.11 |                              |                           |
| 870202           | 0830 | 40412            | 0.040                    |                                |                             | 0.010                           | 1.100                       | 0.290                       | 0.007                     | 8.13 |                              |                           |
| 870303           | 0830 | 40422            | 0.070                    |                                |                             | 0.120                           | 4.100                       | 2.200                       | 0.028                     | 7.79 |                              |                           |
| 870327           | 1005 | 44412            |                          | 2.100                          | 0.0195                      |                                 |                             |                             | 0.003<                    | 8.26 |                              | 0.0110                    |
| 870331           | 0840 | 40432            | 0.040                    |                                |                             | 0.010<                          | 1.700                       | 0.560                       |                           | 8.15 |                              |                           |
| 870508           | 1430 | 42605            |                          | 2.930                          | 0.0545                      |                                 |                             |                             | 0.003<                    | 8.25 |                              | 0.0320                    |
| 870511           | 0825 | 40442            | 0.095                    |                                |                             | 0.020                           | 1.400                       | 0.510                       | 0.003<                    | 8.16 | 1.000<                       |                           |
| 870514           | 1330 | 42600            |                          | 0.995                          | 0.0280                      |                                 |                             |                             | 0.003<                    | 8.41 |                              | 0.0070                    |
| 870519           | 1430 | 42601            |                          | 1.970                          | 0.0895                      |                                 |                             |                             | 0.003<                    | 8.35 |                              | 0.0205                    |
| 870525           | 1430 | 42602            |                          | 1.340                          | 0.0425                      |                                 |                             |                             | 0.003<                    | 8.44 |                              | 0.0095                    |
| 870602           | 1130 | 42603            |                          | 1.320                          | 0.0375                      |                                 |                             |                             | 0.003<                    | 8.30 |                              | 0.0140                    |
| 870615           | 1500 | 42606            |                          | 1.600                          | 0.0575                      |                                 |                             |                             | 0.003<                    | 8.45 |                              | 0.0040                    |
| 870624           | 1430 | 42608            |                          | 2.270                          | 0.0730                      |                                 |                             |                             | 0.003<                    | 8.42 |                              | 0.0035                    |
| 870707           | 0830 | 40462            | 0.065                    |                                |                             | 0.030                           | 0.800                       | 0.920                       | 0.059                     | 8.38 |                              |                           |
|                  | 1230 | 42609            |                          | 0.675                          | 0.0215                      |                                 |                             |                             | 0.003<                    | 8.35 |                              | 0.0075                    |
| 870709           | 1115 | 42610            |                          | 0.410                          | 0.0145                      |                                 |                             |                             | 0.003<                    | 8.25 |                              | 0.0055                    |
| 870722           | 1330 | 42611            |                          | 0.230                          | 0.0150                      |                                 |                             |                             | 0.003<                    | 8.21 |                              | 0.0030                    |
| 870804           | 1230 | 42612            |                          | 0.215                          | 0.0090                      |                                 |                             |                             | 0.030                     | 8.47 |                              | 0.0040                    |
| 870805           | 0900 | 40472            | 0.090                    |                                |                             | 0.010                           | 0.300                       | 0.440                       | 0.003<                    | 8.19 |                              |                           |
| 870806           | 1430 | 42613            |                          | 0.180                          | 0.0090                      |                                 |                             |                             | NO DATA SM                | 8.30 |                              | 0.0015<T                  |
| 870811           | 1300 | 42614            |                          | 0.215                          | 0.0135                      |                                 |                             |                             | 0.022                     | 8.24 |                              | 0.0045                    |
| 870825           | 1100 | 42615            |                          | 0.205                          | 0.0130                      |                                 |                             |                             | NO DATA BT                | 8.29 |                              | 0.0100                    |
| 870827           | 1100 | 42616            |                          | 0.250                          | 0.0290                      |                                 |                             |                             | 0.003<                    | 8.16 |                              | 0.0140                    |
| 870902           | 0830 | 40482            | 0.055                    |                                |                             | 0.030                           | 0.300                       | 0.310                       | 0.003<                    | 8.34 |                              |                           |
| 870908           | 1300 | 42617            |                          | 0.200                          | 0.0145                      |                                 |                             |                             | 0.004                     | 8.56 |                              | 0.0025                    |
| 870917           | 1200 | 42618            |                          | 0.270                          | 0.0235                      |                                 |                             |                             | 0.003<                    | 8.36 |                              | 0.0065                    |
| 870923           | 0800 | 42619            |                          | 1.960                          | 0.0525                      |                                 |                             |                             | 0.003<                    | 8.09 |                              | 0.0145                    |
| 870929           | 0900 | 42620            |                          | 0.580                          | 0.0245                      |                                 |                             |                             | 0.003<                    | 8.21 |                              | 0.0040                    |
| 871001           | 0900 | 42621            |                          | 0.370                          | 0.0220                      |                                 |                             |                             | 0.003<                    | 8.14 |                              | 0.0070                    |
| 871006           | 0830 | 40492            | 0.120                    |                                |                             | 0.060                           | 7.500                       | 1.850                       | 0.017                     | 7.79 |                              |                           |
|                  | 1200 | 42622            |                          | 1.280                          | 0.1040                      |                                 |                             |                             | 0.005                     | 8.27 |                              | 0.0100                    |
| 871021           | 0900 | 42623            |                          | 0.765                          | 0.0150                      |                                 |                             |                             | 0.003<                    | 8.17 |                              | 0.0050                    |
| 871027           | 0900 | 42624            |                          | 4.470                          | 0.0460                      |                                 |                             |                             | 0.003<                    | 7.85 |                              | 0.0025                    |
| 871102           | 0845 | 40502            | 0.040                    |                                |                             | 0.020                           | 5.100                       | 1.060                       | 0.003<                    | 8.13 |                              |                           |
| 871110           | 0900 | 42625            |                          | 2.580                          | 0.0220                      |                                 |                             |                             | 0.003<                    | 8.25 |                              | 0.0100                    |
| 871123           |      | 42626            |                          |                                |                             |                                 |                             |                             | 0.003<                    |      |                              |                           |
| 871126           | 1030 | 42627            |                          | 5.650                          | 0.0700                      |                                 |                             |                             | 0.003<                    | 8.09 |                              | 0.0690                    |
| 871130           | 1230 | 42628            |                          | 12.900                         | 0.0845                      |                                 |                             |                             | 0.003                     | 7.95 |                              | 0.1340                    |
| 871201           | 0840 | 40512            | 0.036                    |                                |                             | 0.070                           | 11.600                      | 1.800                       | 0.060<                    | 8.13 |                              |                           |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43 U T M: 17 0386125.0 4716225.0 4 REGION: 01 DISTANCE: 4.506

| *=INTERIM TEST-NAME:     |             | NNHTUR<br>NH3-N<br>TOTAL | NNOTFR<br>NO2+NO3N<br>FIL.REAC | NNO2FR<br>NO2-N<br>FIL.REAC | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L | PH   | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L | PP04FR<br>PO4<br>FIL.REAC<br>MG/L |
|--------------------------|-------------|--------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|------|--------------------------------------|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER         | MG/L<br>AS N                   | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS PB                    | PH   | PHENOL                               | AS P                              |
| 871209                   | 1300        | 42629                    |                                | 9.580                       | 0.0505                      |                             |                             | 0.003<                           | 7.98 |                                      | 0.0795                            |
| 871222                   | 1100        | 42630                    |                                | 5.630                       | 0.1370                      |                             |                             | 0.006                            | 7.87 |                                      | 0.3150                            |
| MAXIMUM                  |             | 0.120                    | 12.900                         | 0.1370                      | 0.120                       | 11.600                      | 2.200                       | 0.059                            | 8.56 |                                      | 0.3150                            |
| ARITH MEAN               |             | 0.063                    | 2.188                          | 0.0415                      | 0.038                       | 3.436                       | 0.971                       | 0.017                            | 8.21 |                                      | 0.0277<A                          |
| GEOM MEAN                |             | 0.058                    | 1.057                          | 0.0317                      |                             | 1.924                       | 0.774                       |                                  | 8.20 |                                      | 0.0102<A                          |
| MINIMUM                  |             | 0.036                    | 0.180                          | 0.0090                      | 0.010                       | 0.300                       | 0.290                       | 0.003                            | 7.79 |                                      | 0.0015                            |
| STD DEV (GEOM *)         |             | 0.028                    | 2.923                          | 0.0316                      |                             | 3.547                       | 0.678                       |                                  | 0.18 |                                      | 0.0612<A                          |
| # SAMP IN STATISTICS     |             | 11                       | 30                             | 30                          | 10                          | 11                          | 11                          | 11                               | 41   |                                      | 30                                |
| % SAMP (EXCLUDED)        |             |                          |                                |                             | 9                           |                             |                             | 71                               |      |                                      |                                   |

| *=INTERIM TEST-NAME:     |             | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | P1ALDR<br>ALDRIN<br>NG/L | P1BHCA<br>BHC<br>ALPHA<br>NG/L | P1BHCB<br>BHC<br>BETA<br>NG/L | P1BHCG<br>BHC<br>GAMMA<br>NG/L | P1CHLA<br>CHLRDANE<br>ALPHA<br>NG/L | P1CHLG<br>CHLRDANE<br>GAMMA<br>NG/L | P1DIEL<br>DIELDRIN<br>NG/L | P1DMDT<br>DMDT<br>MTHXYLLR<br>NG/L |
|--------------------------|-------------|---------------------------|------------------------------|--------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------------|----------------------------|------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER          | MG/L<br>AS P                 | MG/L<br>AS P             | NG/L                           | NG/L                          | NG/L                           | NG/L                                | NG/L                                | NG/L                       | NG/L                               |
| 870101                   |             | 42604                     |                              | 0.108                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870107                   | 0850        | 40402                     | 0.027                        | 0.036                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870202                   | 0830        | 40412                     | 0.004                        | 0.019                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870303                   | 0830        | 40422                     | 0.104                        | 0.630                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870327                   | 1005        | 44412                     |                              | 0.047                    | 1<W                            | 1<T                           | 1<W                            | 1<W                                 | 2<W                                 | 2<W                        | 5<W                                |
| 870331                   | 0840        | 40432                     | 0.001<                       | 0.044                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870508                   | 1430        | 42605                     |                              | 0.075                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870511                   | 0825        | 40442                     | 0.019                        | 0.119                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870514                   | 1330        | 42600                     |                              | 0.044                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870519                   | 1430        | 42601                     |                              | 0.055                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870525                   | 1430        | 42602                     |                              | 0.060                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870602                   | 1130        | 42603                     |                              | 0.065                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870615                   | 1500        | 42606                     |                              | 0.047                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870624                   | 1430        | 42608                     |                              | 0.092                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870707                   | 0830        | 40462                     | 0.009                        | 0.062                    |                                |                               |                                |                                     |                                     |                            |                                    |
|                          | 1230        | 42609                     |                              | 0.046                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870709                   | 1115        | 42610                     |                              | 0.044                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870722                   | 1330        | 42611                     |                              | 0.039                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870804                   | 1230        | 42612                     |                              | 0.128                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870805                   | 0900        | 40472                     | 0.006                        | 0.055                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870806                   | 1430        | 42613                     |                              | 0.073                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870811                   | 1300        | 42614                     |                              | 0.048                    |                                |                               |                                |                                     |                                     |                            |                                    |
| 870825                   | 1100        | 42615                     |                              | 0.037                    |                                |                               |                                |                                     |                                     |                            |                                    |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

| LAT: 42 35 31.11 |                      | LONG: 082 23 16.43 |          | U T M: 17 0386125.0 4716225.0 4 |        | REGION: 01 |        | DISTANCE: 4.506 |          |          |          |
|------------------|----------------------|--------------------|----------|---------------------------------|--------|------------|--------|-----------------|----------|----------|----------|
| *=INTERIM        | TEST-NAME:           | PP04UR             | PPUT     | P1ALDR                          | P1BHCA | P1BHCB     | P1BHCG | P1CHLA          | P1CHLG   | P1DIEL   | P1DMDT   |
| SAMPLE           |                      | PO4                | PHOSPHOR |                                 | BHC    | BHC        | BHC    | CHLRDANE        | CHLRDANE |          | DMDT     |
| DATE             | HOUR                 | UNF.REAC           | UNF.TOT. | ALDRIN                          | ALPHA  | BETA       | GAMMA  | ALPHA           | GAMMA    | DIELDRIN | MTHXYLLR |
| YYMMDD           | LMT                  | MG/L               | MG/L     | NG/L                            | NG/L   | NG/L       | NG/L   | NG/L            | NG/L     | NG/L     | NG/L     |
|                  |                      | AS P               | AS P     |                                 |        |            |        |                 |          |          |          |
| 870827           | 1100                 | 42616              | 0.037    |                                 |        |            |        |                 |          |          |          |
| 870902           | 0830                 | 40482              | 0.030    |                                 |        |            |        |                 |          |          |          |
| 870908           | 1300                 | 42617              | 0.035    |                                 |        |            |        |                 |          |          |          |
| 870917           | 1200                 | 42618              | 0.031    |                                 |        |            |        |                 |          |          |          |
| 870923           | 0800                 | 42619              | 0.085    |                                 |        |            |        |                 |          |          |          |
| 870929           | 0900                 | 42620              | 0.032    |                                 |        |            |        |                 |          |          |          |
| 871001           | 0900                 | 42621              | 0.044    |                                 |        |            |        |                 |          |          |          |
| 871006           | 0830                 | 40492              | 0.180    |                                 |        |            |        |                 |          |          |          |
|                  | 1200                 | 42622              | 0.035    |                                 |        |            |        |                 |          |          |          |
| 871021           | 0900                 | 42623              | 0.030    |                                 |        |            |        |                 |          |          |          |
| 871027           | 0900                 | 42624              | 0.062    |                                 |        |            |        |                 |          |          |          |
| 871102           | 0845                 | 40502              | 0.184    |                                 |        |            |        |                 |          |          |          |
| 871110           | 0900                 | 42625              | 0.035    |                                 |        |            |        |                 |          |          |          |
| 871126           | 1030                 | 42627              | 0.173    |                                 |        |            |        |                 |          |          |          |
| 871130           | 1230                 | 42628              | 0.260    |                                 |        |            |        |                 |          |          |          |
| 871201           | 0840                 | 40512              | 0.245    |                                 |        |            |        |                 |          |          |          |
| 871209           | 1300                 | 42629              | 0.173    |                                 |        |            |        |                 |          |          |          |
| 871222           | 1100                 | 42630              | 0.495    |                                 |        |            |        |                 |          |          |          |
|                  | MAXIMUM              | 0.129              | 0.630    | 1                               | 1      | 1          | 1      | 2               | 2        | 2        | 5        |
|                  | ARITH MEAN           | 0.041              | 0.101    | 1<A                             | 1<A    | 1<A        | 1<A    | 2<A             | 2<A      | 2<A      | 5<A      |
|                  | GEOM MEAN            |                    | 0.068    |                                 |        |            |        |                 |          |          |          |
|                  | MINIMUM              | 0.004              | 0.019    | 1                               | 1      | 1          | 1      | 2               | 2        | 2        | 5        |
|                  | STD DEV (GEOM *)     |                    | 0.122    |                                 |        |            |        |                 |          |          |          |
|                  | # SAMP IN STATISTICS | 10                 | 41       | 1                               | 1      | 1          | 1      | 1               | 1        | 1        | 1        |
|                  | % SAMP (EXCLUDED)    | 9                  |          |                                 |        |            |        |                 |          |          |          |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43 U T M: 17 0386125.0 4716225.0 4 REGION: 01 DISTANCE: 4.506

| *=INTERIM TEST-NAME:     |             | PIENDR               | PIENDS         | PIEND1                       | PIEND2                | PIHEPE<br>HEPTA<br>CHLOR<br>EPOXIDE | PIHEPT<br>HEPACHOR | P1MIRX<br>MIREX | P1OCHL<br>OXCHLANE | P1OPDT<br>OP-DDT | P1PCBT<br>PCB<br>TOTAL |      |
|--------------------------|-------------|----------------------|----------------|------------------------------|-----------------------|-------------------------------------|--------------------|-----------------|--------------------|------------------|------------------------|------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | ENDRIN<br>NG/L | ENDOSULP<br>SULPHATE<br>NG/L | ENDOSULP<br>I<br>NG/L | ENDOSULP<br>II<br>NG/L              | HEPACHOR<br>NG/L   | MIREX<br>NG/L   | OXCHLANE<br>NG/L   | OP-DDT<br>NG/L   | PCB<br>TOTAL<br>NG/L   |      |
| 870327                   | 1005        | 44412                | 4<W            | 4<W                          | 2<W                   | 4<W                                 | 1<W                | 1<W             | 5<W                | 2<W              | 5<W                    | 20<W |
|                          |             | MAXIMUM              | 4              | 4                            | 2                     | 4                                   | 1                  | 1               | 5                  | 2                | 5                      | 20   |
|                          |             | ARITH MEAN           | 4<A            | 4<A                          | 2<A                   | 4<A                                 | 1<A                | 1<A             | 5<A                | 2<A              | 5<A                    | 20<A |
|                          |             | GEOM MEAN            |                |                              |                       |                                     |                    |                 |                    |                  |                        |      |
|                          |             | MINIMUM              | 4              | 4                            | 2                     | 4                                   | 1                  | 1               | 5                  | 2                | 5                      | 20   |
|                          |             | STD DEV (GEOM *)     |                |                              |                       |                                     |                    |                 |                    |                  |                        |      |
|                          |             | # SAMP IN STATISTICS | 1              | 1                            | 1                     | 1                                   | 1                  | 1               | 1                  | 1                | 1                      | 1    |
|                          |             | % SAMP (EXCLUDED)    |                |                              |                       |                                     |                    |                 |                    |                  |                        |      |

| *=INTERIM TEST-NAME:     |             | P1PPDD           | P1PPDE         | P1PPDT         | P1TOX          | RSF              | RSP                         | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | X1HCBT<br>HXCHLORO<br>BUTADINE<br>NG/L | X2HCB<br>HCB<br>NG/L | X2HCE<br>HCE<br>NG/L |
|--------------------------|-------------|------------------|----------------|----------------|----------------|------------------|-----------------------------|--|--|----------------------|----------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | PP-DDD<br>NG/L | PP-DDE<br>NG/L | PP-DDT<br>NG/L | TOXAPHEN<br>NG/L | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L                       | UNF.REAC<br>MG/L<br>AS S04             | HCB<br>NG/L          | HCE<br>NG/L          |
| 870101                   |             | 42604            |                |                |                |                  |                             | 31.8   |  |                      |                      |
| 870107                   | 0850        | 40402            |                |                |                |                  | 327.0                       | 7.0  | 6.000                                  |                      |                      |
| 870202                   | 0830        | 40412            |                |                |                |                  | 183.6                       | 4.4  | 26.500                                 |                      |                      |
| 870303                   | 0830        | 40422            |                |                |                |                  | 372.3                       | 299.7  | 36.000                                 |                      |                      |
| 870327                   | 1005        | 44412            | 5<W            | 1<W            | 5<W            | NO DATA NP       |                             | 14.5   |  | 10<T                 | 1<W                  |
| 870331                   | 0840        | 40432            |                |                |                |                  | 263.20                      | 16.8   | 43.500                                 |                      |                      |
| 870508                   | 1430        | 42605            |                |                |                |                  |                             | 24.7   |  |                      |                      |
| 870511                   | 0825        | 40442            |                |                |                |                  | 235.6                       | 12.4   | 40.000                                 |                      |                      |
| 870514                   | 1330        | 42600            |                |                |                |                  |                             | 16.8   |  |                      |                      |
| 870519                   | 1430        | 42601            |                |                |                |                  |                             | 4.6  |  |                      |                      |
| 870525                   | 1430        | 42602            |                |                |                |                  |                             | 19.6   |  |                      |                      |
| 870602                   | 1130        | 42603            |                |                |                |                  |                             | 25.3   |  |                      |                      |
| 870615                   | 1500        | 42606            |                |                |                |                  |                             | 20.2   |  |                      |                      |
| 870624                   | 1430        | 42608            |                |                |                |                  |                             | 21.7   |  |                      |                      |
| 870707                   | 0830        | 40462            |                |                |                |                  | 248.0                       | 40.0   | 31.000                                 |                      |                      |
|                          | 1230        | 42609            |                |                |                |                  |                             | 17.0   |  |                      |                      |
| 870709                   | 1115        | 42610            |                |                |                |                  |                             | 12.2   |  |                      |                      |
| 870722                   | 1330        | 42611            |                |                |                |                  |                             | 11.3   |  |                      |                      |
| 870804                   | 1230        | 42612            |                |                |                |                  |                             | 12.3   |  |                      |                      |
| 870805                   | 0900        | 40472            |                |                |                |                  | 154.1                       | 23.9   | 20.500                                 |                      |                      |
| 870806                   | 1430        | 42613            |                |                |                |                  |                             | 15.1   |  |                      |                      |
| 870811                   | 1300        | 42614            |                |                |                |                  |                             | 12.6   |  |                      |                      |
| 870825                   | 1100        | 42615            |                |                |                |                  |                             | 7.8  |  |                      |                      |
| 870827                   | 1100        | 42616            |                |                |                |                  |                             | 8.4  |  |                      |                      |
| 870902                   | 0830        | 40482            |                |                |                |                  | 171.9                       | 16.1   | 22.500                                 |                      |                      |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

| *=INTERIM                         | TEST-NAME:           | P1PPDD         | P1PPDE         | P1PPDT         | P1TOX            | RSF                         | RSP                        | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | X1HCBD<br>HXCHLORO<br>BUTADINE<br>NG/L | X2HCB<br>HCB<br>NG/L | X2HCE<br>HCE<br>NG/L |
|-----------------------------------|----------------------|----------------|----------------|----------------|------------------|-----------------------------|----------------------------|--|--|----------------------|----------------------|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER     | PP-DDD<br>NG/L | PP-DDE<br>NG/L | PP-DDT<br>NG/L | TOXAPHEN<br>NG/L | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L |  |  |                      |                      |
| 870908 1300                       | 42617                |                |                |                |                  |                             | 5.4                        |  |  |                      |                      |
| 870917 1200                       | 42618                |                |                |                |                  |                             | 10.6                       |  |  |                      |                      |
| 870923 0800                       | 42619                |                |                |                |                  |                             | 32.2                       |  |  |                      |                      |
| 870929 0900                       | 42620                |                |                |                |                  |                             | 11.0                       |  |  |                      |                      |
| 871001 0900                       | 42621                |                |                |                |                  |                             | 28.4                       |  |  |                      |                      |
| 871006 0830                       | 40492                |                |                |                |                  | 879.2                       | 60.8                       | 92.500   |  |                      |                      |
| 1200                              | 42622                |                |                |                |                  |                             | 21.3                       |  |  |                      |                      |
| 871021 0900                       | 42623                |                |                |                |                  |                             | 14.2                       |  |  |                      |                      |
| 871027 0900                       | 42624                |                |                |                |                  |                             | 16.9                       |  |  |                      |                      |
| 871102 0845                       | 40502                |                |                |                |                  | 322.00                      | 18.0                       | 47.500   |  |                      |                      |
| 871110 0900                       | 42625                |                |                |                |                  |                             | 20.5                       |  |  |                      |                      |
| 871126 1030                       | 42627                |                |                |                |                  |                             | 52.7                       |  |  |                      |                      |
| 871130 1230                       | 42628                |                |                |                |                  |                             | 57.4                       |  |  |                      |                      |
| 871201 0840                       | 40512                |                |                |                |                  | 515.9                       | 54.1                       | 61.000   |  |                      |                      |
| 871209 1300                       | 42629                |                |                |                |                  |                             | 17.9                       |  |  |                      |                      |
| 871222 1100                       | 42630                |                |                |                |                  |                             | 123.0                      |  |  |                      |                      |
|                                   | MAXIMUM              | 5              | 1              | 5              |                  | 879.2                       | 299.7                      | 92.500   | 10                                     | 1                    | 1                    |
|                                   | ARITH MEAN           | 5<A            | 1<A            | 5<A            |                  | 333.9                       | 30.3                       | 38.818   | 10<A                                   | 1<A                  | 1<A                  |
|                                   | GEOM MEAN            |                |                |                |                  | 292.3                       | 19.3                       | 32.168   |  |                      |                      |
|                                   | MINIMUM              | 5              | 1              | 5              |                  | 154.1                       | 4.4                        | 6.000  | 10                                     | 1                    | 1                    |
|                                   | STD DEV (GEOM *)     |                |                |                |                  | 208.6                       | 48.1                       | 23.178   |  |                      |                      |
|                                   | # SAMP IN STATISTICS | 1              | 1              | 1              |                  | 11                          | 41                         | 11   | 1                                      | 1                    | 1                    |
|                                   | % SAMP (EXCLUDED)    |                |                |                |                  |                             |                            |  |  |                      |                      |

| *=INTERIM                         | TEST-NAME:           | X20CST                      | X2PNCB                             | X2T236                               | X2T245                               | X2T26A                               | X2123                                | X21234                                 | X21235                                 | X2124                                | X21245                                 |
|-----------------------------------|----------------------|-----------------------------|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|--------------------------------------|--|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER     | OCTCHLOR<br>STYRENE<br>NG/L | PENTA<br>CHLORO<br>BENZENE<br>NG/L | 2,3,6<br>TRCHLORO<br>TOLUENE<br>NG/L | 2,4,5<br>TRCHLORO<br>TOLUENE<br>NG/L | 2,6,A<br>TRCHLORO<br>TOLUENE<br>NG/L | 1,2,3<br>TRCHLORO<br>BENZENE<br>NG/L | 1,2,3,4<br>TECHLORO<br>BENZENE<br>NG/L | 1,2,3,5<br>TECHLORO<br>BENZENE<br>NG/L | 1,2,4<br>TRCHLORO<br>BENZENE<br>NG/L | 1,2,4,5<br>TECHLORO<br>BENZENE<br>NG/L |
| 870327 1005                       | 44412                | 1<W                         | 1<W                                | 5<W                                  | 5<W                                  | 5<W                                  | 5<W                                  | 1<W                                    | 1<W                                    | 5<W                                  | 1<W                                    |
|                                   | MAXIMUM              | 1                           | 1                                  | 5                                    | 5                                    | 5                                    | 5                                    | 1                                      | 1                                      | 5                                    | 1                                      |
|                                   | ARITH MEAN           | 1<A                         | 1<A                                | 5<A                                  | 5<A                                  | 5<A                                  | 5<A                                  | 1<A                                    | 1<A                                    | 5<A                                  | 1<A                                    |
|                                   | GEOM MEAN            |                             |                                    |                                      |                                      |                                      |                                      |  |  |                                      |  |
|                                   | MINIMUM              | 1                           | 1                                  | 5                                    | 5                                    | 5                                    | 5                                    | 1                                      | 1                                      | 5                                    | 1                                      |
|                                   | STD DEV (GEOM *)     |                             |                                    |                                      |                                      |                                      |                                      |  |  |                                      |  |
|                                   | # SAMP IN STATISTICS | 1                           | 1                                  | 1                                    | 1                                    | 1                                    | 1                                    | 1                                      | 1                                      | 1                                    | 1                                      |
|                                   | % SAMP (EXCLUDED)    |                             |                                    |                                      |                                      |                                      |                                      |  |  |                                      |  |

( C O N T D )



B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

| *=INTERIM TEST-NAME: |      | X2135    | ZNUT     |
|----------------------|------|----------|----------|
|                      |      | 1,3,5    | ZINC     |
| SAMPLE               |      | TRCHLORO | UNF.TOT. |
| DATE                 | HOUR | SAMPLE   | BENZENE  |
| YYMMDD               | LMT  | NUMBER   | MG/L     |
|                      |      |          | AS ZN    |
| 870107               | 0850 | 40402    | 0.007    |
| 870202               | 0830 | 40412    | 0.001<W  |
| 870303               | 0830 | 40422    | 0.059    |
| 870327               | 1005 | 44412    | 5<W      |
| 870511               | 0825 | 40442    | 0.008    |
| 870707               | 0830 | 40462    | 0.067    |
| 870805               | 0900 | 40472    | 0.001<W  |
| 870902               | 0830 | 40482    | 0.005    |
| 871006               | 0830 | 40492    | 0.077    |
| 871102               | 0845 | 40502    | 0.009    |
| 871201               | 0840 | 40512    | 0.018    |
| MAXIMUM              |      | 5        | 0.077    |
| ARITH MEAN           |      | 5<A      | 0.025<A  |
| GEOM MEAN            |      |          | 0.010<A  |
| MINIMUM              |      | 5        | 0.001    |
| STD DEV (GEOM *)     |      |          | 0.030<A  |
| # SAMP IN STATISTICS |      | 1        | 10       |
| % SAMP (EXCLUDED)    |      |          |          |

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF PETROLIA  
 STATION TYPE: RIVER

STATION ID: 04-0027-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 51 50.05 LONG: 082 10 09.66

U T M: 17 0404475.0 4746150.0 4

REGION: 01

DISTANCE: 62.441

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870107               |      | 40405  | 0101     | 247.0    | 1.24     |          | 60.500   | 780.0    | 0.029    | 6.0      | 264      |
| 870202               |      | 40415  | 0101     | 286.0    | 0.69     |          | 132.000  | 1180.0   | 0.002    | 7.0      | 152      |
| 870303               | 1015 | 40425  | 0101     | 100.0    | 3.46     |          | 18.000   | 327.0    | 0.0090   | 12.0     | 270      |
| 870331               | 0945 | 40435  | 0101     | 176.0    | 2.54     | 45.500   |          | 665.0    |          | 9.0      | 300AID   |
| 870511               | 0940 | 40445  | 0101     | 220.0    | 1.06     |          | 172.000  | 1180.0   | 0.008    | 14.0     | 8        |
| 870707               | 0940 | 40465  | 0101     | 157.0    | 1.90     |          | 735.000  | 3000.0   | 0.008    | 12.0     | 40AID    |
| 870805               | 0940 | 40475  | 0101     | 127.0    | 3.80     |          | 1220.00  | 3700.0   | 0.009    | 10.0     | 20       |
| 870902               | 1006 | 40485  | 0101     | 225.0    | 1.60     | 990.000  |          | 2920.0   | 0.015    | 10.0     | 290      |
| 871006               | 1105 | 40495  | 0101     | 171.1    | 1.84     | 92.100   |          | 860.0    | 0.005    | 10.0     | 530      |
| 871102               | 1007 | 40505  | 0101     | 186.5    | 1.30     | 92.810   |          | 885.0    | 0.002    | 10.0     | 500AID   |
| 871201               | 1009 | 40515  | 0101     | 141.0    | 2.00     | 32.050   |          | 595.0    | 0.011    |          | 500AID   |
| MAXIMUM              |      | 0.30   |          | 286.0    | 3.80     | 990.000  | 1220.00  | 3700.0   | 0.029    | 14.0     | 530      |
| ARITH MEAN           |      | 0.30   |          | 185.1    | 1.95     | 250.492  | 389.583  | 1462.9   | 0.010    | 10.0     | 261      |
| GEOM MEAN            |      |        |          | 177.5    | 1.74     | 104.295  | 167.608  | 1119.6   | 0.007    | 9.7      | 149      |
| MINIMUM              |      | 0.30   |          | 100.0    | 0.69     | 32.050   | 18.000   | 327.0    | 0.002    | 6.0      | 8        |
| STD DEV (GEOM *)     |      |        |          | 55.2     | 0.97     | 414.295  | 483.522  | 1161.7   | 0.008    | 2.4      | 4*       |
| # SAMP IN STATISTICS |      | 11     |          | 11       | 11       | 5        | 6        | 11       | 10       | 10       | 11       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          |          |

| *=INTERIM TEST-NAME: |      | FMSF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PHNOL    |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | PHENOLS  |
| SAMPLE               |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF-REAC |
| DATE                 | HOUR | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | UG/L     |
| YYMMDD               | LMT  | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | PHENOL   |
| 870107               |      | 44       | 6      | 1.0    | 0.225    | 0.020    | 4.900    | 0.690    | 0.003<   | 8.12 | 1.500    |
| 870202               |      | 52       | 4      | 1.0    | 0.100    | 0.020    | 4.700    | 0.460    | 0.003<   | 7.82 | 1.000<   |
| 870303               | 1015 | 950      | 3      | 1.0    | 0.200    | 0.150    | 4.600    | 1.650    | 0.004    | 7.73 | 1.000    |
| 870331               | 0945 | 500AID   | 3      | 10.0   | 0.100    | 0.050    | 5.400    | 1.650    |          | 7.94 | 1.500    |
| 870511               | 0940 | 20       | 6      | 18.0   | 0.005<   | 0.060    | 3.200    | 0.850    | 0.003<   | 7.99 | 1.000<   |
| 870707               | 0940 | 40AID    | 6      | 22.0   | 0.080    | 0.020    | 1.000    | 1.600    | 0.006    | 7.93 | 1.000    |
| 870805               | 0940 | 130      | 6      | 24.0   | 0.220    | 0.050    | 0.900    | 1.500    | 0.003    | 7.68 | 1.000<   |
| 870902               | 1006 | 120      | 6      | 20.0   | 0.325    | 0.060    | 4.900    | 1.600    | 0.004    | 8.37 |          |
| 871006               | 1105 | 210      | 6      | 12.0   | 0.065    | 0.070    | 10.400   | 1.550    | 0.005    | 7.91 |          |
| 871102               | 1007 | 210      | 6      | 1.0    | 0.039    | 0.080    | 13.700   | 0.580    | 0.009    | 7.90 |          |
| 871201               | 1009 | 2100     | 3      | 5.0    | 0.019    | 0.080    | 12.800   | 1.800    | 0.003    | 7.86 |          |

( C O N T D )

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF PETROLIA  
 STATION TYPE: RIVER

STATION ID: 04-0027-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 51 50.05 LONG: 082 10 09.66

U T M: 17 0404475.0 4746150.0 4

REGION: 01

DISTANCE: 62.441

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH<br>PH | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|----------|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |          |  |
|                          |             | MAXIMUM  | 2100                      | 24.0                             | 0.325  | 0.150                                       | 13.700                                      | 1.800   | 0.009                                     | 8.37     | 1.500  |
|                          |             | ARITH MEAN                                       | 398                       | 10.5                             | 0.137  | 0.060                                       | 6.045                                       | 1.266   | 0.005                                     | 7.93     | 1.250  |
|                          |             | GEOM MEAN  | 155                       | 5.4                              | 0.050  | 0.050                                       | 4.484                                       | 1.148   |   | 7.93     |  |
|                          |             | MINIMUM  | 20                        | 1.0                              | 0.019  | 0.020                                       | 0.900                                       | 0.460   | 0.003                                     | 7.68     | 1.000  |
|                          |             | STD DEV (GEOM *)                                 | 4*                        | 9.2                              | 0.037  | 4.361                                       | 0.506                                       |   |   | 0.19     |  |
|                          |             | # SAMP IN STATISTICS                             | 11                        | 11                               | 10   | 11  | 11  | 11  | 7   | 11       | 4  |
|                          |             | % SAMP (EXCLUDED)                                |                           |                                  | 9  |   |   |   | 30  |          | 42   |

| *=INTERIM TEST-NAME:     |             | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|---|--|--|------------------------------------|-----------------------------------|--|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                          |  |  |                                    |                                   |  |                         |   |
| 870107                   |             | 40405                                     | 0.030  | 0.055  | 16                                 | 493.8                             | 10.2   | 85.000                  | 12.60                                     |
| 870202                   |             | 40415                                     | 0.018  | 0.040  | 4<                                 | 757.3                             | 6.7  | 120.000                 | 7.60                                      |
| 870303                   | 1015        | 40425                                     | 0.130  | 0.390  | 4<                                 | 309.1                             | 100.9  | 25.000                  | 250.00                                    |
| 870331                   | 0945        | 40435                                     | 0.066  | 0.255  | 8                                  | 466.2                             | 127.8  | 76.500                  | 171.00                                    |
| 870511                   | 0940        | 40445                                     | 0.037  | 0.080  | 4<                                 | 747.9                             | 34.1   | 81.500                  | 42.00                                     |
| 870707                   | 0940        | 40465                                     | 0.014  | 0.140  | 4<                                 | 2171.7                            | 54.3   | 195.000                 | 59.00                                     |
| 870805                   | 0940        | 40475                                     | 0.012  | 0.160  | 4<                                 | 2364.5                            | 55.5   | 190.000                 | 70.00                                     |
| 870902                   | 1006        | 40485                                     | 0.068  | 0.140  | 4<                                 | 2321.1                            | 46.9   |                         | 61.00                                     |
| 871006                   | 1105        | 40495                                     | 0.070  | 0.155  | 4<                                 | 591.3                             | 34.7   | 91.000                  | 52.00                                     |
| 871102                   | 1007        | 40505                                     | 0.078  | 0.180  | 4<                                 | 607.1                             | 50.9   | 84.500                  | 75.00                                     |
| 871201                   | 1009        | 40515                                     | 0.127  | 0.260  | 30AID                              | 530.2                             | 43.8   | 58.500                  | 154.00                                    |
|                          |             | MAXIMUM                                   | 0.130  | 0.390  | 30                                 | 2364.5                            | 127.8  | 195.000                 | 250.00                                    |
|                          |             | ARITH MEAN                                | 0.059  | 0.169  | 18                                 | 1032.7                            | 51.4   | 100.700                 | 86.75                                     |
|                          |             | GEOM MEAN                                 | 0.045  | 0.140  |                                    | 804.5                             | 39.1   | 87.563                  | 58.21                                     |
|                          |             | MINIMUM                                   | 0.012  | 0.040  | 8                                  | 309.1                             | 6.7  | 25.000                  | 7.60                                      |
|                          |             | STD DEV (GEOM *)                          | 0.042  | 0.102  |                                    | 815.6                             | 35.6   | 54.066                  | 74.23                                     |
|                          |             | # SAMP IN STATISTICS                      | 11   | 11   | 3                                  | 11                                | 11   | 10                      | 11  |
|                          |             | % SAMP (EXCLUDED)                         |  |  | 72                                 |                                   |  |                         | 9<br>10                                   |

B.O.W./ SITE: SYDENHAM RIVER

STATION ID: 04-0027-006-02

SAMPLE POINT: AT DOWN MILLS ROAD UPSTREAM OF DRESDEN

STATION TYPE: RIVER FLOW GAUGE FED 02GG007

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE ERIE

003

TERM STREAM: SYDENHAM RIVER

2980

LAT: 42 35 21.07 LONG: 082 07 46.08

U T M: 17 0407325.0 4715600.0 4

REGION: 01

DISTANCE: 22.530

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     | FSMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    | FECAL    |
| SAMPLE               |      | SAMPLE | PROJECT  | ALK      | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM | STREPCUS |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | TOTAL    | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       | MF       |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      | CNT      |
|                      |      | M      |          |          |          |          |          |          |          | /100ML   | /100ML   |
| 870107               | 0810 | 40401  | 0101     | 224.0    |          | 26.500   | 675.0    | 0.003    | 7.0      | 120      | 28       |
| 870202               | 0800 | 40411  | 0101     | 268.0    |          | 28.000   | 755.0    | 0.021    | 9.0      | 52       | 20       |
| 870303               | 0800 | 40421  | 0101     | 98.6     |          | 21.500   | 349.0    | 0.170    | 11.0     | 270      | 730      |
| 870331               | 0810 | 40431  | 0101     | 191.0    | 21.000   |          | 595.0    |          | 7.0      | 10AID    | 10<      |
| 870511               | 0800 | 40441  | 0101     | 212.0    |          | 24.500   | 600.0    | 0.005    | 11.0     | 4<       | 4<       |
| 870707               | 0800 | 40461  | 0101     | 173.0    |          | 20.500   | 472.0    | 0.009    | 11.0     | 32       | 44       |
| 870805               | 0800 | 40471  | 0101     | 120.0    |          | 21.500   | 354.0    | 0.007    | 8.0      | 4        | 8        |
| 870902               | 0800 | 40481  | 0101     |          | 24.000   |          | 344.0    | 0.004    | 9.0      | 50AID    | 10<      |
| 871006               | 0800 | 40491  | 0101     | 123.5    | 266.400  |          | 1210.0   | 0.015    | 10.0     | 140      | 180      |
| 871102               | 0800 | 40501  | 0101     | 174.7    | 43.950   |          | 635.0    | 0.001    | 10.0     | 30AID    | 120      |
| 871201               | 0800 | 40511  | 0101     | 162.9    | 43.570   |          | 610.0    | 0.013    | 11.0     | 100AID   | 1000     |
| MAXIMUM              |      | 0.30   |          | 268.0    | 266.400  | 28.000   | 1210.0   | 0.170    | 11.0     | 270      | 1000     |
| ARITH MEAN           |      | 0.30   |          | 174.8    | 79.784   | 23.750   | 599.9    | 0.025    | 9.5      | 81       | 266      |
| GEOM MEAN            |      |        |          | 167.6    | 48.086   | 23.588   | 560.4    | 0.009    | 9.3      |          |          |
| MINIMUM              |      | 0.30   |          | 98.6     | 21.000   | 20.500   | 344.0    | 0.001    | 7.0      | 4        | 8        |
| STD DEV (GEOM *)     |      |        |          | 52.0     | 104.867  | 3.062    | 246.7    | 0.051    | 1.6      |          |          |
| # SAMP IN STATISTICS |      | 11     |          | 10       | 5        | 6        | 11       | 10       | 11       | 10       | 8        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          | 9        | 27       |

| *=INTERIM TEST-NAME: |      | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PHNOL    | PP04UR   |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|------|----------|----------|
|                      |      |        |        | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |      | PHENOLS  | PO4      |
| SAMPLE               |      |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF-REAC | UNF.REAC |
| DATE                 | HOUR | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | UG/L     | MG/L     |
| YYMMDD               | LMT  | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | PHENOL   | AS P     |
| 870107               | 0810 | 40401  | 6      | 1.0      | 0.060    | 0.030    | 6.500    | 0.800    | 8.12 | 1.000<   | 0.034    |
| 870202               | 0800 | 40411  | 4      | 1.0      | 0.040    | 0.030    | 5.700    | 0.700    | 7.94 | 1.000<   | 0.009    |
| 870303               | 0800 | 40421  | 3      | 1.0      | 0.090    | 0.130    | 4.100    | 2.200    | 7.85 | 1.000    | 0.112    |
| 870331               | 0810 | 40431  | 3      | 10.0     | 0.020    | 0.010<   | 3.100    | 0.700    | 8.27 | 1.500    | 0.001<   |
| 870511               | 0800 | 40441  | 6      | 17.0     | 0.005<   | 0.130    | 2.900    | 0.940    | 8.12 | 1.000<   | 0.023    |
| 870707               | 0800 | 40461  | 6      | 27.0     | 0.005<   | 0.010<   | 0.100<   | 1.550    | 8.20 | 1.000<   | 0.013    |
| 870805               | 0800 | 40471  | 6      | 24.0     | 0.145    | 0.020    | 0.300    | 0.680    | 8.19 | 1.000<   | 0.010    |
| 870902               | 0800 | 40481  | 6      | 20.0     | 0.240    | 0.070    | 0.400    | 0.960    | 8.09 |          | 0.028    |
| 871006               | 0800 | 40491  | 6      | 12.0     | 0.125    | 0.060    | 7.300    | 1.850    | 7.84 |          | 0.052    |
| 871102               | 0800 | 40501  | 6      | 1.0      | 0.075    | 0.040    | 7.600    | 1.500    | 7.92 |          | 0.044    |
| 871201               | 0800 | 40511  | 3      | 5.0      | 0.141    | 0.060    | 11.700   | 2.100    | 7.79 |          | 0.104    |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT DOWN MILLS ROAD UPSTREAM OF DRESDEN  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG007

STATION ID: 04-0027-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 21.07 LONG: 082 07 46.08

U T M: 17 0407325.0 4715600.0 4

REGION: 01

DISTANCE: 22.530

| *INTERIM TEST-NAME:  |            | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT. | PH                        | PHNOL<br>PHENOLS<br>UNF-REAC | PP04UR<br>P04<br>UNF.REAC             |                                 |
|----------------------|------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|---------------------------------------|---------------------------------|
| SAMPLE<br>DATE       | HR<br>HOUR | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                           | PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | P04<br>UNF.REAC<br>MG/L<br>AS P |
| MAXIMUM              |            |                  |                 | 27.0                     | 0.240                       | 0.130                       | 11.700                      | 2.200                    | 0.039                     | 8.27                         | 1.500                                 | 0.112                           |
| ARITH MEAN           |            |                  |                 | 10.8                     | 0.104                       | 0.063                       | 4.960                       | 1.271                    | 0.020                     | 8.03                         | 1.250                                 | 0.043                           |
| GEOM MEAN            |            |                  |                 | 5.5                      |                             |                             |                             | 1.153                    |                           | 8.03                         |                                       |                                 |
| MINIMUM              |            |                  |                 | 1.0                      | 0.020                       | 0.020                       | 0.300                       | 0.680                    | 0.008                     | 7.79                         | 1.000                                 | 0.009                           |
| STD DEV (GEOM *)     |            |                  |                 | 9.9                      |                             |                             |                             | 0.587                    |                           | 0.17                         |                                       |                                 |
| # SAMP IN STATISTICS |            |                  |                 | 11                       | 9                           | 9                           | 10                          | 11                       | 6                         | 11                           | 2                                     | 10                              |
| % SAMP (EXCLUDED)    |            |                  |                 |                          | 18                          | 18                          | 9                           |                          | 40                        |                              | 71                                    | 9                               |

| *INTERIM TEST-NAME:  |            | PPUT<br>PHOSPHOR | RSP                      | TURB                       | ZNUT<br>ZINC    |                           |
|----------------------|------------|------------------|--------------------------|----------------------------|-----------------|---------------------------|
| SAMPLE<br>DATE       | HR<br>HOUR | SAMPLE<br>NUMBER | UNF.TOT.<br>MG/L<br>AS P | RESIDUE<br>PARTIC.<br>MG/L | TURB*ITY<br>FTU | UNF.TOT.<br>MG/L<br>AS ZN |
| 870107               | 0810       | 40401            | 0.046                    | 10.2                       | 24.00           | 0.004                     |
| 870202               | 0800       | 40411            | 0.030                    | 12.6                       | 8.10            | 0.015                     |
| 870303               | 0800       | 40421            | 0.610                    | 296.2                      | 465.00          | 0.074                     |
| 870331               | 0810       | 40431            | 0.062                    | 42.2                       | 34.00           |                           |
| 870511               | 0800       | 40441            | 0.062                    | 25.9                       | 23.00           | 0.018                     |
| 870707               | 0800       | 40461            | 0.190                    | 63.8                       | 101.00          | 0.034                     |
| 870805               | 0800       | 40471            | 0.066                    | 21.0                       | 21.00           | 0.033                     |
| 870902               | 0800       | 40481            | 0.066                    | 29.0                       | 26.00           | 0.009                     |
| 871006               | 0800       | 40491            | 0.180                    | 70.6                       | 83.00           | 0.077                     |
| 871102               | 0800       | 40501            | 0.200                    | 18.3                       | 40.00           | 0.012                     |
| 871201               | 0800       | 40511            | 0.285                    | 118.1                      | 120.00          | 0.033                     |
| MAXIMUM              |            | 0.610            | 296.2                    | 465.00                     | 0.077           |                           |
| ARITH MEAN           |            | 0.163            | 64.4                     | 85.92                      | 0.031           |                           |
| GEOM MEAN            |            | 0.110            | 38.1                     | 45.06                      | 0.022           |                           |
| MINIMUM              |            | 0.030            | 10.2                     | 8.10                       | 0.004           |                           |
| STD DEV (GEOM *)     |            | 0.170            | 83.4                     | 130.98                     | 0.026           |                           |
| # SAMP IN STATISTICS |            | 11               | 11                       | 11                         | 10              |                           |
| % SAMP (EXCLUDED)    |            |                  |                          |                            |                 |                           |

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC SOUTH OF HWY.22 STRATHROY  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG005

STATION ID: 04-0027-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 52.27 LONG: 081 40 06.57

U T M: 17 0445450.0 4753175.0 4

REGION: 01

DISTANCE: 130.675

| *=INTERIM TEST-NAME: |       | FWSADP | FGPROJ        | ALKT  | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |          |        |
|----------------------|-------|--------|---------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
|                      |       |        |               |       | BOD      |          |          |          |          |          |          |          |        |
|                      |       |        |               |       | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |          |        |
|                      |       |        |               |       | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |          |        |
|                      |       |        |               |       | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |          |        |
|                      |       |        |               |       | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |          |        |
|                      |       |        |               |       | AS CAC03 |          |          |          |          |          | /100ML   |          |        |
| SAMPLE DATE          | YMMDD | TIME   | SAMPLE NUMBER | DEPTH | PROJECT  | TOTAL    | TOT.DEM. | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL  |
| 870107               | 1415  |        | 40409         | 0.30  | 0101     | 250.0    | 0.93     |          | 26.000   | 670.0    | 0.008    | 6.0      | 88     |
| 870202               |       |        | 40419         | 0.30  | 0101     | 242.0    | 1.20     |          | 35.000   | 660.0    | 0.001 <  | 10.0     | 316    |
| 870303               | 1221  |        | 40429         | 0.30  | 0101     | 130.0    | 3.80     |          | 20.500   | 405.0    | 0.0030   | 10.0     | 230    |
| 870331               | 1301  |        | 40439         | 0.30  | 0101     | 203.0    |          |          |          |          | 0.003    | 9.0      | 200AID |
| 870511               | 1300  |        | 40449         | 0.30  | 0101     | 228.0    | 1.19     |          | 23.000   | 620.0    | 0.005    | 12.0     | 24     |
| 870707               | 1300  |        | 40469         | 0.30  | 0101     | 228.0    | 1.30     |          | 19.000   | 580.0    | 0.004    | 11.0     | 84     |
| 870805               | 1300  |        | 40479         | 0.30  | 0101     |          | 2.74     |          | 19.500   | 565.0    | 0.004    | 12.0     | 108    |
| 870902               |       |        | 40489         | 0.30  | 0101     |          | 1.25     | 20.000   |          | 560.0    | 0.003    | 10.0     | 60AID  |
| 871006               | 1412  |        | 40499         | 0.30  | 0101     | 237.5    | 0.84     | 25.450   |          | 615.0    | 0.002    | 10.0     | 8      |
| 871102               | 1327  |        | 40509         | 0.30  | 0101     | 234.7    | 1.42     | 33.330   |          | 675.0    |          | 10.0     | 30AID  |
| 871201               | 1300  |        | 40519         | 0.30  | 0101     | 184.1    | 1.41     | 32.250   |          | 655.0    | 0.006    | 10.0     | 200AID |
| MAXIMUM              |       |        | 0.30          |       |          | 250.0    | 3.80     | 33.330   | 35.000   | 675.0    | 0.008    | 12.0     | 316    |
| ARITH MEAN           |       |        | 0.30          |       |          | 215.3    | 1.61     | 27.757   | 23.833   | 600.5    | 0.004    | 10.0     | 123    |
| GEOM MEAN            |       |        |               |       |          | 211.6    | 1.44     | 27.197   | 23.275   | 594.8    |          | 9.9      | 80     |
| MINIMUM              |       |        | 0.30          |       |          | 130.0    | 0.84     | 20.000   | 19.000   | 405.0    | 0.002    | 6.0      | 8      |
| STD DEV (GEOM *)     |       |        |               |       |          | 37.9     | 0.93     | 6.238    | 6.055    | 81.0     |          | 1.6      | 3*     |
| # SAMP IN STATISTICS |       |        | 11            |       |          | 9        | 10       | 4        | 6        | 10       |          | 11       | 11     |
| % SAMP (EXCLUDED)    |       |        |               |       |          |          |          |          |          |          | 10       |          |        |

| *=INTERIM TEST-NAME: |       | FSMF     | FWFLOW        | FWSTRC | FWTEMP  | HGUT      | NNHTUR    | NNO2UR    | NNO3UR    | NNTKUR    | PBUT      |          |        |
|----------------------|-------|----------|---------------|--------|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--------|
|                      |       | FECAL    |               |        |         |           | NH3-N     |           |           | K'DAHL N  |           |          |        |
|                      |       | STREPCUS | STREAM        |        |         | MERCURY   | TOTAL     | NO2-N     | NO3-N     | TOTAL     | LEAD      |          |        |
|                      |       | MF       | FLOW          |        | WATER   | UNF. TOT. | UNF. REAC | UNF. REAC | UNF. REAC | UNF. REAC | UNF. TOT. |          |        |
|                      |       | CNT      | M3            | STREAM | TEMP    | UG/L      | MG/L      | MG/L      | MG/L      | MG/L      | MG/L      |          |        |
|                      |       | /100ML   | /S            | COND.  | DEG.C   | AS HG     | AS N      | AS N      | AS N      | AS N      | AS PB     |          |        |
| SAMPLE DATE          | YMMDD | TIME     | SAMPLE NUMBER | DEPTH  | PROJECT | TOTAL     | TOT.DEM.  | CHLORIDE  | CHLORIDE  | CONDUCT.  | COPPER    | DISOLVED | FECAL  |
| 870107               | 1415  |          | 40409         | 0.30   | 0101    | 250.0     | 0.93      |           | 26.000    | 670.0     | 0.008     | 6.0      | 88     |
| 870202               |       |          | 40419         | 0.30   | 0101    | 242.0     | 1.20      |           | 35.000    | 660.0     | 0.001 <   | 10.0     | 316    |
| 870303               | 1221  |          | 40429         | 0.30   | 0101    | 130.0     | 3.80      |           | 20.500    | 405.0     | 0.0030    | 10.0     | 230    |
| 870331               | 1301  |          | 40439         | 0.30   | 0101    | 203.0     |           |           |           |           | 0.003     | 9.0      | 200AID |
| 870511               | 1300  |          | 40449         | 0.30   | 0101    | 228.0     | 1.19      |           | 23.000    | 620.0     | 0.005     | 12.0     | 24     |
| 870707               | 1300  |          | 40469         | 0.30   | 0101    | 228.0     | 1.30      |           | 19.000    | 580.0     | 0.004     | 11.0     | 84     |
| 870805               | 1300  |          | 40479         | 0.30   | 0101    |           | 2.74      |           | 19.500    | 565.0     | 0.004     | 12.0     | 108    |
| 870902               |       |          | 40489         | 0.30   | 0101    |           | 1.25      | 20.000    |           | 560.0     | 0.003     | 10.0     | 60AID  |
| 871006               | 1412  |          | 40499         | 0.30   | 0101    | 237.5     | 0.84      | 25.450    |           | 615.0     | 0.002     | 10.0     | 8      |
| 871102               | 1327  |          | 40509         | 0.30   | 0101    | 234.7     | 1.42      | 33.330    |           | 675.0     |           | 10.0     | 30AID  |
| 871201               | 1300  |          | 40519         | 0.30   | 0101    | 184.1     | 1.41      | 32.250    |           | 655.0     | 0.006     | 10.0     | 200AID |
| MAXIMUM              |       |          | 0.30          |        |         | 250.0     | 3.80      | 33.330    | 35.000    | 675.0     | 0.008     | 12.0     | 316    |
| ARITH MEAN           |       |          | 0.30          |        |         | 215.3     | 1.61      | 27.757    | 23.833    | 600.5     | 0.004     | 10.0     | 123    |
| GEOM MEAN            |       |          |               |        |         | 211.6     | 1.44      | 27.197    | 23.275    | 594.8     |           | 9.9      | 80     |
| MINIMUM              |       |          | 0.30          |        |         | 130.0     | 0.84      | 20.000    | 19.000    | 405.0     | 0.002     | 6.0      | 8      |
| STD DEV (GEOM *)     |       |          |               |        |         | 37.9      | 0.93      | 6.238     | 6.055     | 81.0      |           | 1.6      | 3*     |
| # SAMP IN STATISTICS |       |          | 11            |        |         | 9         | 10        | 4         | 6         | 10        |           | 11       | 11     |
| % SAMP (EXCLUDED)    |       |          |               |        |         |           |           |           |           |           | 10        |          |        |

( C O N T D )

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC SOUTH OF HWY.22 STRATHROY  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG005

STATION ID: 04-0027-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 52.27 LONG: 081 40 06.57

U T M: 17 0445450.0 4753175.0 4

REGION: 01

DISTANCE: 130.675

| *=-INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | HGUT<br>MERCURY<br>UNF.TOT.<br>UG/L<br>AS HG | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>N02-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>N03-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|-----------------------|--|--|--------------------------------------|---------------------------|----------------------------------|--|--|---|---|---|---|
| MAXIMUM               |  | 950  | 7.910                                |                           | 22.0                             | 0.01   | 0.460  | 0.190                                       | 11.800                                      | 1.100   | 0.003                                     |
| ARITH MEAN            |  | 196  | 1.833                                |                           | 8.3                              | 0.01   | 0.176  | 0.052                                       | 3.920                                       | 0.732   | 0.003                                     |
| GEOM MEAN             |  |  | 1.133                                |                           | 4.3                              |  |  |   | 3.396                                       | 0.705   |   |
| MINIMUM               |  | 4  | 0.309                                |                           | 1.0                              | 0.01   | 0.035  | 0.010                                       | 2.100                                       | 0.460   | 0.003                                     |
| STD DEV (GEOM *)      |  |  | 2.228                                |                           | 8.1                              |  |  |   | 2.864                                       | 0.213   |   |
| # SAMP IN STATISTICS  |  | 9  | 11                                   |                           | 11                               | 1  | 8  | 9   | 10  | 10  | 1   |
| % SAMP (EXCLUDED)     |  | 10   |                                      |                           |                                  |  | 20   | 10  |   |   | 90  |

| *=-INTERIM TEST-NAME: |      | PH    | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|-----------------------|------|-------|--|---|--|--|------------------------------------|-----------------------------------|--|-------------------------|---|
| 870107                | 1415 | 40409 | 8.16   | 1.500                                     | 0.025  | 0.051  | 4<                                 | 363.6                             | 6.4  | 5.90                    | 0.008                                     |
| 870202                |      | 40419 | 8.05   | 1.000<                                    | 0.049  | 0.074  | 4<                                 | 399.4                             | 2.6  | 4.80                    | 0.007                                     |
| 870303                | 1221 | 40429 | 7.76   | 1.000                                     | 0.163  | 0.270  | 4                                  | 256.5                             | 25.5   | 44.00                   | 0.011                                     |
| 870331                | 1301 | 40439 | 8.08   | 1.000<                                    |  |  | 4<                                 |                                   |  |                         | 0.009                                     |
| 870511                | 1300 | 40449 | 8.12   | 1.000<                                    | 0.050  | 0.170  | 4<                                 | 365.7                             | 20.3   | 17.40                   | 0.020<                                    |
| 870707                | 1300 | 40469 | 8.07   | 1.000<                                    | 0.021  | 0.118  | 8                                  | 406.6                             | 37.4   | 29.00                   | 0.012                                     |
| 870805                | 1300 | 40479 | 8.05   |   | 0.025  | 0.108  | 4                                  | 350.1                             | 23.9   | 45.500                  | 0.009                                     |
| 870902                |      | 40489 | 8.30   |   | 0.033  | 0.082  | 4<                                 | 388.9                             | 37.1   | 21.00                   | 0.008                                     |
| 871006                | 1412 | 40499 | 8.05   |   | 0.039  | 0.074  | 4<                                 | 363.5                             | 10.5   | 12.30                   | 0.005                                     |
| 871102                | 1327 | 40509 | 8.02   |   | 0.035  | 0.136  | 4<                                 | 432.9                             | 5.1  | 5.60                    |   |
| 871201                | 1300 | 40519 | 7.93   |   | 0.069  | 0.108  | 4                                  | 453.2                             | 20.8   | 28.00                   | 0.009                                     |
| MAXIMUM               |      | 8.30  | 1.500  | 0.163                                     | 0.270  | 8  | 453.2                              | 37.4                              | 45.500   | 44.00                   | 0.012                                     |
| ARITH MEAN            |      | 8.05  | 1.250  | 0.051                                     | 0.119  | 5  | 378.0                              | 19.0                              | 45.500   | 19.40                   | 0.009                                     |
| GEOM MEAN             |      | 8.05  |  | 0.042                                     | 0.107  |  | 374.2                              | 14.1                              |  | 15.21                   |   |
| MINIMUM               |      | 7.76  | 1.000  | 0.021                                     | 0.051  | 4  | 256.5                              | 2.6                               | 45.500   | 4.80                    | 0.005                                     |
| STD DEV (GEOM *)      |      | 0.13  |  | 0.042                                     | 0.063  |  | 53.9                               | 12.6                              |  | 12.73                   |   |
| # SAMP IN STATISTICS  |      | 11    | 2  | 10  | 10   | 4  | 10                                 | 10                                | 1  | 10                      | 9   |
| % SAMP (EXCLUDED)     |      |       | 66   |   |  | 63   |                                    |                                   |  |                         | 10  |

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT TOWNSHIP LINE N-E OF AVONRY STP  
 STATION TYPE: RIVER

STATION ID: 04-0027-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 45 49.87 LONG: 082 20 30.93 U T M: 17 0390200.0 4735250.0 4 REGION: 01 DISTANCE: 34.278

| *=INTERIM TEST-NAME: |      | FWSADP          | FGPROJ              | ALKT             | BOD5         | CLIDUR        | CLIDUR         | COND25             | FCMF              | FSMF              | FWSTRC |
|----------------------|------|-----------------|---------------------|------------------|--------------|---------------|----------------|--------------------|-------------------|-------------------|--------|
|                      |      |                 |                     |                  | BOD<br>5 DAY | CHLORIDE      | CHLORIDE       | CONDUCT.           | FECAL<br>COLIFORM | FECAL<br>STREPCUS |        |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>DEPTH | PROJECT<br>SUB-PROJ | ALK<br>TOTAL     | TOT.DEM.     | UNF.REAC      | UNF.REAC       | 25C                | MF                | MF                | STREAM |
| YYMMDD               | LMT  | NUMBER          | CODE                | MG/L<br>AS CAC03 | MG/L<br>AS O | MG/L<br>AS CL | MG/L<br>AS CL- | UMHO/CM<br>AT 25 C | CNT<br>/100ML     | CNT<br>/100ML     | COND.  |
| 870107               | 0940 | 40403           | 0101                | 189.0            | 1.72         |               | 98.500         | 975.0              | 4<                | 4<                | 6      |
| 870202               | 0915 | 40413           | 0101                | 298.0            | 0.94         |               | 120.000        | 1150.0             | 284               | 20                | 4      |
| 870303               | 0900 | 40423           | 0101                | 107.0            | 4.04         |               | 23.500         | 368.0              | 310               | 1400              | 3      |
| 870331               | 0900 | 40433           | 0101                | 164.0            | 2.68         | 47.000        |                | 640.0              | 100<              | 500AID            | 3      |
| 870511               | 0900 | 40443           | 0101                | 235.0            | 2.55         |               | 138.000        | 1100.0             | 4                 | 4                 | 6      |
| 870707               | 0915 | 40463           | 0101                | 175.0            | 3.70         |               | 290.000        | 1450.0             | 70AID             | 10AID             | 6      |
| 870805               | 0920 | 40473           | 0101                | 116.0            | 6.70         |               | 705.000        | 2380.0             | 90AID             | 172               | 6      |
| 870902               | 0915 | 40483           | 0101                |                  | 2.58         | 730.000       |                | 2770.0             | 80AID             | 280               | 6      |
| 871006               | 0945 | 40493           | 0101                | 126.2            | 2.64         | 259.050       |                | 1310.0             | 160               | 120               | 6      |
| 871102               | 0924 | 40503           | 0101                | 178.1            | 2.20         | 68.960        |                | 775.0              | 600AID            | 360               | 6      |
| 871201               | 0927 | 40513           | 0101                | 160.2            | 2.70         | 52.160        |                | 665.0              |                   | 1000              | 3      |
| MAXIMUM              |      | 0.30            |                     | 298.0            | 6.70         | 730.000       | 705.000        | 2770.0             | 600               | 1400              |        |
| ARITH MEAN           |      | 0.30            |                     | 174.8            | 2.95         | 231.434       | 229.167        | 1234.8             | 200               | 387               |        |
| GEOM MEAN            |      |                 |                     | 167.1            | 2.65         | 126.167       | 140.937        | 1058.8             |                   |                   |        |
| MINIMUM              |      | 0.30            |                     | 107.0            | 0.94         | 47.000        | 23.500         | 368.0              | 4                 | 4                 |        |
| STD DEV (GEOM *)     |      |                 |                     | 57.5             | 1.50         | 292.354       | 248.885        | 738.5              |                   |                   |        |
| # SAMP IN STATISTICS |      | 11              |                     | 10               | 11           | 5             | 6              | 11                 | 8                 | 10                |        |
| % SAMP (EXCLUDED)    |      |                 |                     |                  |              |               |                |                    | 20                | 9                 |        |

| *=INTERIM TEST-NAME: |      | FWTEMP         | NNHTUR         | NN02UR       | NN03UR       | NNTKUR            | PH    | PHNOL          | PP04UR       | PPUT         | PSAMF               |       |
|----------------------|------|----------------|----------------|--------------|--------------|-------------------|-------|----------------|--------------|--------------|---------------------|-------|
|                      |      |                | NH3-N<br>TOTAL | N02-N        | N03-N        | K'DAHL N<br>TOTAL |       | PHENOLS        | P04          | PHOSPHOR     | PSEUDOMN            |       |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>TEMP | UNF.REAC       | UNF.REAC     | UNF.REAC     | UNF.REAC          |       | UNF-REAC       | UNF.REAC     | UNF.TOT.     | AERUG.              |       |
| YYMMDD               | LMT  | DEG.C          | MG/L<br>AS N   | MG/L<br>AS N | MG/L<br>AS N | MG/L<br>AS N      | PH    | UG/L<br>PHENOL | MG/L<br>AS P | MG/L<br>AS P | MF<br>CNT<br>/100ML |       |
| 870107               | 0940 | 40403          | 1.0            | 0.215        | 0.030        | 4.100             | 2.800 | 8.05           | 1.500        | 0.050        | 0.360               | 4<    |
| 870202               | 0915 | 40413          | 1.0            | 0.075        | 0.030        | 4.700             | 0.470 | 7.75           | 1.000<       | 0.015        | 0.046               | 4<    |
| 870303               | 0900 | 40423          | 1.0            | 0.155        | 0.150        | 3.800             | 1.800 | 7.76           | 1.000        | 0.122        | 0.420               | 4<    |
| 870331               | 0900 | 40433          | 10.0           | 0.090        | 0.040        | 6.300             | 2.000 | 7.89           | 1.000        | 0.081        | 0.315               | 40    |
| 870511               | 0900 | 40443          | 16.0           | 0.005        | 0.030        | 2.000             | 1.200 | 7.89           | 1.000<       | 0.026        | 0.135               | 4<    |
| 870707               | 0915 | 40463          | 26.0           | 0.120        | 0.040        | 0.900             | 1.600 | 8.06           | 1.000<       | 0.049        | 0.180               | 4<    |
| 870805               | 0920 | 40473          | 24.0           | 0.010        | 0.010        | 0.300             | 1.700 | 7.55           |              | 0.026        | 0.250               | 4     |
| 870902               | 0915 | 40483          | 2.0            | 0.200        | 0.040        | 0.400             | 1.200 | 7.92           |              | 0.042        | 0.190               | 4     |
| 871006               | 0945 | 40493          | 12.0           | 0.125        | 0.060        | 7.500             | 1.850 | 7.79           |              | 0.041        | 0.160               | 4     |
| 871102               | 0924 | 40503          | 1.0            | 0.057        | 0.070        | 11.800            | 1.600 | 7.95           |              | 0.092        | 0.180               | 4<    |
| 871201               | 0927 | 40513          | 5.0            | 0.042        | 0.060        | 10.800            | 0.235 | 8.03           |              | 0.114        | 0.235               | 20AID |

( C O N T D )



B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT TOWNSHIP LINE N-E OF AVONRY STP  
 STATION TYPE: RIVER

STATION ID: 04-0027-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 45 49.87 LONG: 082 20 30.93

U T M: 17 0390200.0 4735250.0 4

REGION: 01

DISTANCE: 34.278

| *=INTERIM TEST-NAME:     |             | FWTEMP               | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PHNOL                      | PPO4UR<br>P04            | PPUT<br>PHOSPHOR         | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML |
|--------------------------|-------------|----------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF-REAC<br>UG/L<br>PHENOL | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P |  |
|                          |             | MAXIMUM              | 26.0                     | 0.215                    | 0.150                    | 11.800                      | 2.800                    | 8.06                       | 1.500                    | 0.122                    | 40   |
|                          |             | ARITH MEAN           | 9.0                      | 0.099                    | 0.051                    | 4.782                       | 1.496                    | 7.88                       | 1.167                    | 0.060                    | 14   |
|                          |             | GEOM MEAN            | 4.4                      | 0.065                    | 0.042                    | 2.835                       | 1.262                    | 7.87                       |                          | 0.050                    | 0.197  |
|                          |             | MINIMUM              | 1.0                      | 0.005                    | 0.010                    | 0.300                       | 0.235                    | 7.55                       | 1.000                    | 0.015                    | 4  |
|                          |             | STD DEV (GEOM *)     | 9.5                      | 0.071                    | 0.037                    | 3.984                       | 0.711                    | 0.15                       |                          | 0.037                    | 0.107  |
|                          |             | # SAMP IN STATISTICS | 11                       | 11                       | 11                       | 11                          | 11                       | 11                         | 3                        | 11                       | 5  |
|                          |             | % SAMP (EXCLUDED)    |                          |                          |                          |                             |                          | 50                         |                          |                          | 54   |

| *=INTERIM TEST-NAME:     |             | RSF                  | RSP                         | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS SO4 | TURB<br>TURB'ITY<br>FTU |
|--------------------------|-------------|----------------------|-----------------------------|--|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L                       |                         |
| 870107                   | 0940        | 40403                | 615.0                       | 149.0  | 170.000                 |
| 870202                   | 0915        | 40413                | 739.4                       | 8.6  | 118.000                 |
| 870303                   | 0900        | 40423                | 350.4                       | 157.6  | 34.000                  |
| 870331                   | 0900        | 40433                | 454.6                       | 175.4  | 69.000                  |
| 870511                   | 0900        | 40443                | 676.1                       | 83.9   | 84.500                  |
| 870707                   | 0915        | 40463                | 1087.9                      | 92.1   | 110.000                 |
| 870805                   | 0920        | 40473                | 1657.0                      | 115.0  | 145.000                 |
| 870902                   | 0915        | 40483                | 1983.9                      | 134.1  | 202.000                 |
| 871006                   | 0945        | 40493                | 888.3                       | 41.7   | 92.000                  |
| 871102                   | 0924        | 40503                | 558.4                       | 63.3   | 82.500                  |
| 871201                   | 0927        | 40513                | 557.2                       | 56.8   | 70.500                  |
|                          |             | MAXIMUM              | 1983.9                      | 175.4  | 202.000                 |
|                          |             | ARITH MEAN           | 869.8                       | 98.0   | 107.045                 |
|                          |             | GEOM MEAN            | 759.4                       | 77.8   | 96.626                  |
|                          |             | MINIMUM              | 350.4                       | 8.6  | 34.000                  |
|                          |             | STD DEV (GEOM *)     | 516.2                       | 52.9   | 48.995                  |
|                          |             | # SAMP IN STATISTICS | 11                          | 11   | 11                      |
|                          |             | % SAMP (EXCLUDED)    |                             |  |                         |

B.O.W./ SITE: BLACK CREEK  
 SAMPLE POINT: AT COUNTY ROAD 9 WEST OF OIL SPRINGS  
 STATION TYPE: RIVER FLOW GAUGE NOE 02GG101

STATION ID: 04-0027-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 47 15.99 LONG: 082 10 21.00 U T M: 17 0404100.0 4737700.0 4 REGION: 01 DISTANCE: 49.406

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ   | ALKT  | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|-------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |       | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK   | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          | TOTAL | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L  | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | AS    | AS 0     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     | CAC03 |          |          |          |          |          |          |          |
| 870107               | 1015 | 40404  | 0.30     | 0101  | 186.0    | 2.68     | 99.000   | 965.0    | 0.480    | 8.0      | 4<       |
| 870202               |      | 40414  | 0.30     | 0101  | 250.0    | 2.14     | 380.000  | 2020.0   | 0.001    | 8.0      | 236      |
| 870303               | 0930 | 40424  | 0.30     | 0101  | 62.5     | 3.46     | 23.500   | 293.0    | 0.0120   | 12.0     | 90AID    |
| 870331               | 0930 | 40434  | 0.30     | 0101  | 116.0    | 3.12     | 40.000   | 595.0    |          | 9.0      | 800AID   |
| 870511               | 0915 | 40444  | 0.30     | 0101  | 133.0    | 2.22     | 505.000  | 2340.0   | 0.008    | 16.0     | 4<       |
| 870707               | 0920 | 40464  | 0.30     |       | 106.0    | 2.30     | 198.000  | 1090.0   | 0.007    | 12.0     | 50       |
| 870805               | 0930 | 40474  | 0.30     | 0101  | 63.0     | 13.70    | 6350.00  | 1590.0   | 0.019    | 12.0     | 40       |
| 870902               | 0948 | 40484  | 0.30     | 0101  |          | 2.56     | 3850.00  | 10800    | 0.016    |          | 30AID    |
| 871006               | 1000 | 40494  | 0.30     | 0101  | 126.0    | 2.78     | 272.750  | 1300.0   | 0.010    | 10.0     | 50AID    |
| 871102               | 0950 | 40504  | 0.30     | 0101  | 142.9    | 1.76     | 241.500  | 1240.0   | 0.003    | 10.0     | 700AID   |
| 871201               | 0956 | 40514  | 0.30     | 0101  |          | 2.42     | 45.850   | 565.0    |          | 10.0     | 500AID   |
| MAXIMUM              |      | 0.30   |          |       | 250.0    | 13.70    | 3850.00  | 6350.00  | 10800    | 0.480    | 800      |
| ARITH MEAN           |      | 0.30   |          |       | 131.7    | 3.56     | 890.020  | 1259.25  | 2073     | 0.062    | 277      |
| GEOM MEAN            |      |        |          |       | 120.6    | 2.92     | 215.530  | 287.212  | 1267     | 0.011    | 10.5     |
| MINIMUM              |      | 0.30   |          |       | 62.5     | 1.76     | 40.000   | 23.500   | 293.0    | 0.001    | 30       |
| STD DEV (GEOM *)     |      |        |          |       | 58.6     | 3.40     | 1658.18  | 2500.29  | 2959     | 0.157    | 2.4      |
| # SAMP IN STATISTICS |      | 11     |          |       | 9        | 11       | 5        | 6        | 11       | 9        | 10       |
| % SAMP (EXCLUDED)    |      |        |          |       |          |          |          |          |          |          | 18       |

| *INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH     | PHNOL    |        |
|---------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|--------|----------|--------|
|                     |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |        |          |        |
|                     |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |        | PHENOLS  |        |
|                     |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF-REAC |        |
| SAMPLE              |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |        | UG/L     |        |
| DATE                | HOUR | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH     | PHENOL   |        |
| YYMMDD              | LMT  |          |        |        |          |          |          |          |          |        |          |        |
| 870107              | 1015 | 40404    | 4<     | 6      | 1.0      | 0.220    | 0.030    | 4.000    | 1.400    | 0.003< | 8.07     | 2.000  |
| 870202              |      | 40414    | 12     | 4      | 1.0      | 0.290    | 0.030    | 2.700    | 1.200    | 0.003< | 7.71     | 2.000  |
| 870303              | 0930 | 40424    | 780    | 3      | 1.0      | 0.180    | 0.130    | 4.700    | 2.200    | 0.003  | 7.76     | 1.000  |
| 870331              | 0930 | 40434    | 400AID | 3      | 10.0     | 0.115    | 0.080    | 9.000    | 2.350    |        | 7.84     | 1.000< |
| 870511              | 0915 | 40444    | 4<     | 6      | 16.0     | 0.685    | 0.020    | 0.200    | 2.100    | 0.003< | 7.86     | 1.000< |
| 870707              | 0920 | 40464    | 80     | 6      | 25.0     | 0.100    | 0.150    | 3.400    | 1.950    | 0.003< | 8.05     | 1.000< |
| 870805              | 0930 | 40474    | 120    | 5      | 24.0     | 0.040    | 0.010    | 0.100    | 4.500    | 0.003< | 7.15     |        |
| 870902              | 0948 | 40484    | 1700   | 6      | 20.0     | 0.005<   | 0.010    | 0.100    | 1.100    | 0.003< | 8.23     |        |
| 871006              | 1000 | 40494    | 130    | 6      | 12.0     | 0.120    | 0.080    | 7.400    | 2.050    | 0.019  | 7.77     |        |
| 871102              | 0950 | 40504    | 500    | 6      | 1.0      | 0.028    | 0.040    | 7.700    | 1.400    | 0.003< | 7.92     |        |
| 871201              | 0956 | 40514    | 600AID | 3      | 5.0      | 0.038    | 0.100    | 10.100   | 2.300    |        | 7.77     |        |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

131

B.O.W./ SITE: BLACK CREEK  
 SAMPLE POINT: AT COUNTY ROAD 9 WEST OF OIL SPRINGS  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GG101

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STATION ID: 04-0027-009-02

STORET CODE: 02  
 003  
 2980

LAT: 42 47 15.99 LONG: 082 10 21.00

U T M: 17 0404100.0 4737700.0 4

REGION: 01

DISTANCE: 49.406

| *INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH<br>PH | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL |
|---------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----------|--|
|---------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----------|--|

|                      |      |  |      |       |       |        |       |       |      |       |
|----------------------|------|--|------|-------|-------|--------|-------|-------|------|-------|
| MAXIMUM              | 1700 |  | 25.0 | 0.685 | 0.150 | 10.100 | 4.500 | 0.019 | 8.23 | 2.000 |
| ARITH MEAN           | 480  |  | 10.5 | 0.182 | 0.062 | 4.491  | 2.050 | 0.011 | 7.83 | 1.667 |
| GEOM MEAN            |      |  | 5.4  |       | 0.043 | 1.975  | 1.900 |       | 7.83 |       |
| MINIMUM              | 12   |  | 1.0  | 0.028 | 0.010 | 0.100  | 1.100 | 0.003 | 7.15 | 1.000 |
| STD DEV (GEOM *)     |      |  | 9.5  |       | 0.049 | 3.636  | 0.931 |       | 0.28 |       |
| # SAMP IN STATISTICS | 9    |  | 11   | 10    | 11    | 11     | 11    | 2     | 11   | 3     |
| % SAMP (EXCLUDED)    | 18   |  |      | 9     |       |        |       | 77    |      | 50    |

| *INTERIM TEST-NAME:  |       | PPO4UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|-------|---|--|--|------------------------------------|-----------------------------------|--|-------------------------|---|
| 870107 1015          | 40404 | 0.037                                     | 0.185  | 4<   | 621.2                              | 90.8                              | 145.000  | 101.00                  | 0.023                                     |
| 870202               | 40414 | 0.004                                     | 0.032  | 4<   | 1393.5                             | 8.5                               | 240.000  | 9.80                    | 0.012                                     |
| 870303 0930          | 40424 | 0.127                                     | 0.510  | 4<   | 379.7                              | 68.3                              | 33.000   | 315.00                  | 0.050                                     |
| 870331 0930          | 40434 | 0.090                                     | 0.340  | 44   | 510.2                              | 141.8                             | 87.500   | 260.00                  |   |
| 870511 0915          | 40444 | 0.090                                     | 0.140  | 4<   | 1435.7                             | 46.3                              | 180.000  | 34.00                   | 0.020<                                    |
| 870707 0920          | 40464 | 0.009                                     | 0.140  | 4<   | 855.1                              | 72.9                              | 105.000  | 100.00                  | 0.015                                     |
| 870805 0930          | 40474 | 0.008                                     | 0.324  | 4<   | 1201.3                             | 43.7                              | 300.000  | 4.30                    | 0.006                                     |
| 870902 0948          | 40484 | 0.015                                     | 0.060  | 4  | 8556.3                             | 37.2                              | 270.000  | 36.00                   | 0.006                                     |
| 871006 1000          | 40494 | 0.048                                     | 0.180  | 4  | 889.6                              | 46.4                              | 92.000   | 71.00                   | 0.001<W                                   |
| 871102 0950          | 40504 | 0.049                                     | 0.170  | 8  | 952.1                              | 31.9                              | 107.000  | 79.00                   | 0.016                                     |
| 871201 0956          | 40514 | 0.171                                     | 0.370  | 10AID  | 626.2                              | 33.8                              | 74.500   | 255.00                  |   |
| MAXIMUM              | 0.171 | 0.510                                     | 44   | 8556.3   | 141.8                              | 300.000                           | 315.00   | 0.050                   |   |
| ARITH MEAN           | 0.059 | 0.223                                     | 14   | 1583.7   | 56.5                               | 148.545                           | 115.01   | 0.016<A                 |   |
| GEOM MEAN            | 0.034 | 0.174                                     |  | 1010.5   | 46.2                               | 124.644                           | 62.90  |                         |   |
| MINIMUM              | 0.004 | 0.032                                     | 4  | 379.7  | 8.5                                | 33.000                            | 4.30   | 0.001                   |   |
| STD DEV (GEOM *)     | 0.055 | 0.145                                     |  | 2338.3   | 36.1                               | 87.427                            | 109.73   |                         |   |
| # SAMP IN STATISTICS | 11    | 11  | 5  | 11   | 11                                 | 11                                | 11   | 8                       |   |
| % SAMP (EXCLUDED)    |       |   | 54   |  |                                    |                                   |  | 11                      |   |

B.O.W./ SITE: BROWN CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH OF WATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA105

STATION ID: 04-0027-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 50.68 LONG: 081 52 06.09 U T M: 17 0429140.0 4753275.0 4 REGION: 01 DISTANCE: 117.157

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CRUT     | CUUT     | DO       |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          |          | BOD      |          |          |          |          |          |          |
|                      |      |                      |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | CHROMIUM | COPPER   | DISOLVED |
| SAMPLE               |      | SAMPLE               | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | UNF.TOT. | OXYGEN   |
| DATE                 | HR   | DEPTH                | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MG/L     |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CR    | AS CU    | AS O     |
| 870107               | 1300 | 40408                | 0101     | 243.0    | 1.01     |          | 32.500   | 725.0    | 0.005 <  | 0.003 <  | 9.0      |
| 870202               |      | 40418                | 0101     | 276.0    | 1.95     |          | 37.500   | 825.0    | 0.005 <  | 0.006    | 6.0      |
| 870303               | 1045 | 40428                | 0101     | 106.0    | 2.34     |          | 20.500   | 387.0    | 0.0020   | 0.0020   | 10.0     |
| 870331               |      | 40438                | 0101     | 165.0    |          |          |          |          | 0.003    | 0.004    | 10.0     |
| 870511               | 1130 | 40448                | 0101     | 176.0    | 2.29     |          | 27.500   | 570.0    | 0.002    | 0.003    | 14.0     |
| 870707               | 1100 | 40468                | 0101     | 134.0    | 11.10    |          | 49.500   | 510.0    | 0.005    | 0.004    | 9.0      |
| 870805               | 1100 | 40478                | 0101     | 125.0    | 56.00    |          | 70.500   | 560.0    | 0.008    | 0.006    | 13.0     |
| 870902               | 1100 | 40488                | 0101     |          | 9.20     | 81.500   |          | 615.0    | 0.016    | 0.008    | 12.0     |
| 871006               | 1315 | 40498                | 0101     | 176.4    | 0.93     | 57.640   |          | 830.0    | 0.004    | 0.003    | 12.0     |
| 871102               | 1130 | 40508                | 0101     | 228.4    | 1.21     | 40.560   |          | 810.0    | 0.004    | 0.002    | 10.0     |
| 871201               | 1145 | 40518                | 0101     | 163.9    | 1.66     | 30.970   |          | 630.0    | 0.005    | 0.005    | 10.0     |
|                      |      | MAXIMUM              | 0.30     | 276.0    | 56.00    | 81.500   | 70.500   | 830.0    | 0.016    | 0.008    | 14.0     |
|                      |      | ARITH MEAN           | 0.30     | 179.4    | 8.77     | 52.667   | 39.667   | 646.2    | 0.005    | 0.004    | 10.5     |
|                      |      | GEOM MEAN            |          | 172.1    | 3.20     | 49.287   | 36.585   | 629.8    |          |          | 10.2     |
|                      |      | MINIMUM              | 0.30     | 106.0    | 0.93     | 30.970   | 20.500   | 387.0    | 0.0020   | 0.0020   | 6.0      |
|                      |      | STD DEV (GEOM *)     |          | 54.4     | 16.98    | 22.162   | 17.994   | 148.7    |          |          | 2.2      |
|                      |      | # SAMP IN STATISTICS | 11       | 10       | 10       | 4        | 6        | 10       | 9        | 10       | 11       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          | 18       | 9        |          |

| *=INTERIM TEST-NAME: |      | FCMF     | FSMF     | FWSTRC | FWTEMP | NIUT     | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     |
|----------------------|------|----------|----------|--------|--------|----------|----------|----------|----------|----------|----------|
|                      |      | FECAL    | FECAL    |        |        |          | NH3-N    |          |          | K'DAHL N |          |
|                      |      | COLIFORM | STREPCUS |        | WATER  | NICKEL   | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |
| SAMPLE               |      | MF       | MF       |        | TEMP   | UNF.TOT. | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |
| DATE                 | HR   | CNT      | CNT      | STREAM | DEG.C  | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |
| YYMMDD               | LMT  | /100ML   | /100ML   | COND.  |        | AS NI    | AS N     | AS N     | AS N     | AS N     | AS PB    |
| 870107               | 1300 | 44       | 4        | 6      | 1.0    | 0.015<   | 0.005    | 0.010    | 5.900    | 0.520    | 0.030<   |
| 870202               |      | 32       | 12       | 4      | 1.0    | 0.015<   | 0.575    | 0.050    | 6.300    | 1.620    | 0.030<   |
| 870303               | 1045 | 40428    | 190      | 3      | 1.0    | 0.003    | 0.290    | 0.150    | 6.600    | 1.220    | 0.005    |
| 870331               |      | 420      | 370      | 3      | 10.0   | 0.006    |          |          |          |          | 0.006    |
| 870511               | 1130 | 140      | 36       | 6      | 22.0   | 0.016    | 0.005<   | 0.010    | 0.500    | 0.940    | 0.003<   |
| 870707               | 1100 | 40468    | 70AID    | 6      | 22.0   | 0.034    | 0.020    | 0.020    | 0.100    | 3.850    | 0.003<   |
| 870805               | 1100 | 40478    | 130      | 6      | 24.0   | 0.030    | 0.330    | 0.010    | 0.300    | 4.800    | 0.003<   |
| 870902               | 1100 | 40488    | 130      | 6      | 20.0   | 0.029    | 0.805    | 0.070    | 0.200    | 3.700    | 0.011    |
| 871006               | 1315 | 40498    | 120      | 6      | 12.0   | 0.007    | 0.005<   | 0.110    | 22.700   | 1.360    | 0.003<   |
| 871102               | 1130 | 40508    | 10<      | 6      | 1.0    | 0.006    | 0.211    | 0.140    | 18.200   | 0.760    | 0.003<   |
| 871201               | 1145 | 40518    | 1000     | 3      | 5.0    | 0.005    | 0.086    | 0.100    | 14.600   | 1.260    | 0.003<   |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

133

B.O.W./ SITE: BROWN CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH OF WATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA105

STATION ID: 04-0027-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 50.68 LONG: 081 52 06.09 U T M: 17 0429140.0 4753275.0 4 REGION: 01 DISTANCE: 117.157

| *=INTERIM TEST-NAME:              |                  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|-----------------------------------|------------------|--|--|---------------------------|----------------------------------|---|--|---|---|---|---|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER |  |  |                           |                                  |   |  |   |   |   |   |
|                                   |                  | MAXIMUM  | 1300   | 1000                      | 24.0                             | 0.034                                       | 0.805  | 0.150                                       | 22.700                                      | 4.800   | 0.011                                     |
|                                   |                  | ARITH MEAN                                       | 405  | 206                       | 10.8                             | 0.015                                       | 0.290  | 0.067                                       | 7.540                                       | 2.003   | 0.007                                     |
|                                   |                  | GEOM MEAN  | 157  |                           | 5.5                              |   |  | 0.042                                       | 2.316                                       | 1.561   |   |
|                                   |                  | MINIMUM  | 10   | 4                         | 1.0                              | 0.003                                       | 0.005  | 0.010                                       | 0.100                                       | 0.520   | 0.005                                     |
|                                   |                  | STD DEV (GEOM *)                                 | 5*   |                           | 9.6                              |   |  | 0.055                                       | 8.230                                       | 1.517   |   |
|                                   |                  | # SAMP IN STATISTICS                             | 11   | 10                        | 11                               | 9   | 8  | 10  | 10  | 10  | 3   |
|                                   |                  | % SAMP (EXCLUDED)                                |  | 9                         |                                  | 18  | 20   |   |   |   | 72  |

| *=INTERIM TEST-NAME:              |                  | PH                   | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|-----------------------------------|------------------|----------------------|---|--|--|-----------------------------------|--|-------------------------|---|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER |                      |   |  |  |                                   |  |                         |   |
| 870107 1300                       | 40408            | 8.23                 | 0.046                                     | 0.067  | 4<   | 14.6                              | 69.000   | 5.50                    | 0.049                                     |
| 870202                            | 40418            | 7.82                 | 0.045                                     | 0.116  | 4<   | 15.2                              | 87.000   | 19.80                   | 0.004                                     |
| 870303 1045                       | 40428            | 7.73                 | 0.224                                     | 0.300  | 4<   | 18.6                              | 22.000   | 49.00                   | 0.014                                     |
| 870331                            | 40438            | 7.93                 |   |  | 4  |                                   |  |                         | 0.014                                     |
| 870511 1130                       | 40448            | 7.95                 | 0.035                                     | 0.108  | 4<   | 37.9                              | 61.000   | 42.00                   | 0.008                                     |
| 870707 1100                       | 40468            | 7.52                 | 0.040                                     | 0.690  | 4<   | 250.4                             |  | 190.00                  | 0.026                                     |
| 870805 1100                       | 40478            | 7.48                 | 0.031                                     | 0.710  | 4<   | 160.5                             | 50.000   | 185.00                  | 0.016                                     |
| 870902 1100                       | 40488            | 7.67                 | 0.109                                     | 0.500  | 16   | 180.7                             | 66.500   | 172.00                  | 0.033                                     |
| 871006 1315                       | 40498            | 7.98                 | 0.141                                     | 0.182  | 4  | 6.6                               |  | 22.00                   | 0.005                                     |
| 871102 1130                       | 40508            | 8.03                 | 0.075                                     | 0.215  | 4<   | 11.8                              |  | 12.70                   | 0.007                                     |
| 871201 1145                       | 40518            | 7.87                 | 0.147                                     | 0.194  | 12   | 18.7                              | 54.500   | 30.00                   | 0.008                                     |
|                                   |                  | MAXIMUM              | 8.23                                      | 0.224  | 16   | 250.4                             | 87.000   | 190.00                  | 0.049                                     |
|                                   |                  | ARITH MEAN           | 7.84                                      | 0.089  | 9  | 71.5                              | 58.571   | 72.80                   | 0.017                                     |
|                                   |                  | GEOM MEAN            | 7.83                                      | 0.071  |  | 33.3                              | 54.671   | 40.32                   | 0.013                                     |
|                                   |                  | MINIMUM              | 7.48                                      | 0.031  | 4  | 6.6                               | 22.000   | 5.50                    | 0.004                                     |
|                                   |                  | STD DEV (GEOM *)     | 0.22                                      | 0.064  |  | 89.9                              | 20.055   | 76.77                   | 0.014                                     |
|                                   |                  | # SAMP IN STATISTICS | 11  | 10   | 10   | 10                                | 7  | 10                      | 11  |
|                                   |                  | % SAMP (EXCLUDED)    |   |  | 63   |                                   |  |                         |   |

## 134

STORET CODE: 02  
003  
2980

**DISTANCE: 97.041**

| *INTERIM                 |             | TEST-NAME:       | FWFLOW                     | FWSTRC          | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL  | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF. TOT.  | PH   | PP04UR<br>PO4<br>UNF.REAC |
|--------------------------|-------------|------------------|----------------------------|-----------------|------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|------|---------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF. REAC<br>MG/L<br>AS N | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS PB | PH   | UNF. REAC<br>MG/L<br>AS P |
| 870107                   | 1315        | 40400            | 1.490                      | 6               | 1.0                    | 0.070                     | 0.020                       | 5.000                       | 0.550                       | 0.030<                     | 8.19 | 0.022                     |
| 870202                   |             | 40410            | 0.490                      | 4               | 1.0                    | 0.160                     | 0.020                       | 4.100                       | 0.620                       | 0.030<                     | 7.92 | 0.019                     |
| 870303                   | 1200        | 40420            | 28.400                     | 3               | 1.0                    | 0.215                     | 0.250                       | 5.700                       | 1.250                       | 0.003                      | 7.70 | 0.154                     |
| 870331                   | 1156        | 40430            | 6.020                      |                 | 1.0                    |                           |                             |                             |                             | 0.005                      |      |                           |
| 870511                   | 1200        | 40440            | 0.267                      | 6               | 16.0                   | 0.005<                    | 0.250                       | 2.300                       | 1.000                       | 0.003<                     | 8.13 | 0.028                     |
| 870707                   | 1140        | 40460            | 0.027                      | 6               | 22.0                   | 0.055                     | 0.020                       | 0.100<                      | 0.680                       | 0.030<                     | 8.16 | 0.020                     |
| 870805                   | 1140        | 40470            | 0.014                      | 6               | 2.4                    | 0.060                     | 0.020                       | 1.500                       | 0.950                       | 0.003<                     | 8.10 | 0.013                     |
| 870902                   | 1155        | 40480            | 0.013                      | 6               | 20.0                   | 0.035                     | 0.060                       | 1.700                       | 0.640                       | 0.006                      | 8.36 | 0.033                     |
| 871006                   | 1340        | 40490            | 1.550                      | 6               | 12.0                   | 0.035                     | 0.010                       | 5.100                       | 1.000                       | 0.003<                     | 8.13 | 0.024                     |
| 871102                   | 1159        | 40500            | 0.805                      | 6               | 1.0                    | 0.015                     | 0.040                       | 8.300                       | 0.820                       | 0.003<                     | 8.13 | 0.015                     |
| 871201                   | 1206        | 40510            | 9.530                      | 3               | 0.5                    | 0.032                     | 0.060                       | 13.300                      | 1.450                       | 0.003                      | 7.97 | 0.084                     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

135

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC.NORTH OF ALVINSTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG002

STATION ID: 04-0027-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 49 52.09 LONG: 081 51 05.56

U T M: 17 0430400.0 4742200.0 4

REGION: 01

DISTANCE: 97.041

| *=INTERIM TEST-NAME: |             | FWFLOW           | FWSTRC                     | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT. | PH                        | PP04UR<br>P04<br>UNF.REAC |                          |
|----------------------|-------------|------------------|----------------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                        | UNF.REAC<br>MG/L<br>AS P |

|                      |        |  |  |      |       |       |        |       |       |      |       |
|----------------------|--------|--|--|------|-------|-------|--------|-------|-------|------|-------|
| MAXIMUM              | 28.400 |  |  | 22.0 | 0.215 | 0.250 | 13.300 | 1.450 | 0.006 | 8.36 | 0.154 |
| ARITH MEAN           | 4.419  |  |  | 7.1  | 0.075 | 0.075 | 5.222  | 0.896 | 0.004 | 8.08 | 0.041 |
| GEOM MEAN            | 0.567  |  |  | 2.9  | 0.041 | 0.041 |        | 0.855 |       | 8.08 | 0.029 |
| MINIMUM              | 0.013  |  |  | 0.5  | 0.015 | 0.010 | 1.500  | 0.550 | 0.003 | 7.70 | 0.013 |
| STD DEV (GEOM *)     | 8.511  |  |  | 8.6  | 0.094 | 0.094 |        | 0.293 |       | 0.18 | 0.045 |
| # SAMP IN STATISTICS | 11     |  |  | 11   | 9     | 10    | 9      | 10    | 4     | 10   | 10    |
| % SAMP (EXCLUDED)    |        |  |  |      | 10    |       | 10     |       | 63    |      |       |

| *=INTERIM TEST-NAME: |             | PPUT             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF    | RSP<br>RESIDUE<br>PARTIC. | SS04UR<br>SULPHATE<br>UNF.REAC | ZNUT<br>ZINC<br>UNF.TOT. |
|----------------------|-------------|------------------|--------------------------------------|---------------------------|--------------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | CNT<br>/100ML             | MG/L<br>AS S04                 | MG/L<br>AS ZN            |

|                      |      |       |       |    |      |        |         |
|----------------------|------|-------|-------|----|------|--------|---------|
| 870107               | 1315 | 40400 | 0.040 | 4< | 5.0< | 56.500 | 0.003   |
| 870202               |      | 40410 | 0.043 | 4< | 3.6  | 60.000 | 0.015   |
| 870303               | 1200 | 40420 | 0.295 | 4  | 69.8 | 24.000 | 0.013   |
| 870331               | 1156 | 40430 |       | 4  |      |        | 0.012   |
| 870511               | 1200 | 40440 | 0.080 | 4< | 22.9 | 54.000 | 0.022   |
| 870707               | 1140 | 40460 | 0.102 | 20 | 44.9 | 52.000 | 0.011   |
| 870805               | 1140 | 40470 | 0.135 | 4< | 71.7 |        | 0.001<W |
| 870902               | 1155 | 40480 | 0.080 | 4< | 50.5 | 51.000 | 0.024   |
| 871006               | 1340 | 40490 | 0.306 | 4< | 35.5 | 67.500 | 0.006   |
| 871102               | 1159 | 40500 | 0.044 | 4< | 18.1 | 73.500 | 0.007   |
| 871201               | 1206 | 40510 | 0.135 | 8  | 30.0 | 64.000 | 0.012   |
| MAXIMUM              |      |       | 0.306 | 20 | 71.7 | 73.500 | 0.024   |
| ARITH MEAN           |      |       | 0.126 | 9  | 38.6 | 55.833 | 0.011<A |
| GEOM MEAN            |      |       | 0.098 |    |      | 53.678 | 0.009<A |
| MINIMUM              |      |       | 0.040 | 4  | 3.6  | 24.000 | 0.001   |
| STD DEV (GEOM *)     |      |       | 0.098 |    |      | 14.087 | 0.007<A |
| # SAMP IN STATISTICS |      |       | 10    | 4  | 9    | 9      | 11      |
| % SAMP (EXCLUDED)    |      |       |       | 63 | 10   |        |         |

## 1987 WATER QUALITY DATA REGION 1

136

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: NEXT BRIDGE UPSTR AT FED GAUGE  
 STATION TYPE: RIVER

STATION ID: 04-0027-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 53 13.96 LONG: 083 19 33.86 U T M: 17 0310050.0 4750700.0 4 REGION: 01

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |          | BOD      |          |          |          |          | FECAL    | FECAL    |
|                      |      |        |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | COLIFORM | STREPCUS |
|                      |      |        |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | MF       | MF       |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | CNT      | CNT      |
| YYMMDD               | HOUR | YYMMDD | HOUR   | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AT 25 C  | AS O     | /100ML   | /100ML   |
| YYMMDD               | LMT  | NUMBER | M      | CODE     |          |          |          |          |          |          |          |
| 870107               | 1100 | 40406  | 0.30   | 0101     | 259.0    | 0.90     |          | 735.0    |          | 224      | 36       |
| 870202               | 1014 | 40416  | 0.30   | 0101     | 286.0    | 0.55     |          | 820.0    |          | 256      | 24       |
| 870303               |      | 40426  | 0.30   | 0101     | 108.0    | 3.50     |          | 356.0    |          | 90AID    | 1230<    |
| 870331               | 1000 | 40436  | 0.30   | 0101     | 184.0    | 2.58     | 26.000   | 580.0    |          | 400      | 310      |
| 870511               | 1015 | 40446  | 0.30   | 0101     | 221.0    | 2.06     |          | 680.0    |          | 28       | 4<       |
| 870707               | 1000 | 40466  | 0.30   | 0101     | 158.0    | 1.90     |          | 550.0    |          | 220      | 160      |
| 870805               | 1000 | 40476  | 0.30   | 0101     | 143.0    | 2.70     |          | 535.0    |          | 230      | 220      |
| 870902               | 1023 | 40486  | 0.30   | 0101     | 71.5     | 1.70     | 42.500   | 484.0    |          | 850      | 1000     |
| 871006               | 1127 | 40496  | 0.30   | 0101     | 156.6    | 1.86     | 46.760   | 735.0    |          | 1700     | 1100     |
| 871102               | 1030 | 40506  | 0.30   | 0101     | 208.4    | 2.08     | 36.360   | 730.0    |          | 600AID   | 670      |
| 871201               | 1120 | 40516  | 0.30   | 0101     | 159.3    | 1.88     | 27.690   | 565.0    | 10.0     | 500AID   | 2000     |
| MAXIMUM              |      | 0.30   |        |          | 286.0    | 3.50     | 46.760   | 820.0    | 10.0     | 1700     | 2000     |
| ARITH MEAN           |      | 0.30   |        |          | 177.7    | 1.97     | 35.862   | 615.5    | 10.0     | 463      | 613      |
| GEOM MEAN            |      |        |        |          | 166.5    | 1.78     | 34.933   | 600.4    |          | 291      |          |
| MINIMUM              |      | 0.30   |        |          | 71.5     | 0.55     | 26.000   | 356.0    | 10.0     | 28       | 24       |
| STD DEV (GEOM *)     |      |        |        |          | 63.0     | 0.81     | 9.043    | 136.7    |          | 3*       |          |
| # SAMP IN STATISTICS |      | 11     |        |          | 11       | 11       | 5        | 11       | 1        | 11       | 9        |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          |          |          | 18       |

| *=INTERIM TEST-NAME: |      | FWSTRC | FWTEMP | NNHTUR | NN02UR   | NN03UR   | NNTKUR   | PH   | PHNOL    | PP04UR   | PPUT     |
|----------------------|------|--------|--------|--------|----------|----------|----------|------|----------|----------|----------|
|                      |      |        |        | NH3-N  | NO2-N    | NO3-N    | K'DAHL N |      |          |          |          |
|                      |      |        |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC |      | PHENOLS  | P04      | PHOSPHOR |
|                      |      |        |        | MG/L   | MG/L     | MG/L     | MG/L     |      | UNF-REAC | UNF.REAC | UNF.TOT. |
| SAMPLE               | DATE | DATE   | STREAM | AS N   | AS N     | AS N     | AS N     | PH   | UG/L     | MG/L     | MG/L     |
| YYMMDD               | HOUR | YYMMDD | COND.  |        |          |          |          |      | PHENOL   | AS P     | AS P     |
| YYMMDD               | LMT  | NUMBER |        |        |          |          |          |      |          |          |          |
| 870107               | 1100 | 40406  | 6      | 1.0    | 0.075    | 0.010    | 5.200    | 8.17 | 1.500    | 0.028    | 0.043    |
| 870202               | 1014 | 40416  | 4      | 1.0    | 0.040    | 0.020    | 4.900    | 7.84 | 2.500    | 0.016    | 0.034    |
| 870303               |      | 40426  | 3      | 1.0    | 0.170    | 0.180    | 5.100    | 7.73 | 1.000    | 0.147    | 0.325    |
| 870331               | 1000 | 40436  | 3      | 10.0   | 0.085    | 0.040    | 7.300    | 8.00 | 1.000<   | 0.076    | 0.175    |
| 870511               | 1015 | 40446  | 6      | 21.0   | 0.005    | 0.340    | 2.000    | 8.10 | 1.000<   | 0.022    | 0.066    |
| 870707               | 1000 | 40466  | 6      | 22.0   | 0.120    | 0.010    | 0.100<   | 7.75 | 1.000<   | 0.018    | 0.120    |
| 870805               | 1000 | 40476  | 6      | 24.0   | 0.120    | 0.020    | 0.300    | 7.68 |          | 0.022    | 0.170    |
| 870902               | 1023 | 40486  | 6      | 2.0    | 0.035    | 0.050    | 0.200    | 8.37 |          | 0.038    | 0.110    |
| 871006               | 1127 | 40496  | 6      | 12.0   | 0.045    | 0.070    | 18.000   | 7.93 |          | 0.150    | 0.175    |
| 871102               | 1030 | 40506  | 6      | 1.0    | 0.019    | 0.060    | 13.400   | 7.94 |          | 0.057    | 0.110    |
| 871201               | 1120 | 40516  | 3      | 5.0    | 0.004    | 0.060    | 11.900   | 7.89 |          | 0.111    | 0.200    |

( C O N T D )



B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: NEXT BRIDGE UPSTR AT FED GAUGE  
 STATION TYPE: RIVER

STATION ID: 04-0027-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 53 13.96 LONG: 083 19 33.86 U T M: 17 0310050.0 4750700.0 4 REGION: 01

| *INTERIM TEST-NAME:      |           | FWSTRC           | FWTEMP                           | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | MNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC | PH   | PHNOL<br>PHENOLS<br>UNF-REAC | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. |
|--------------------------|-----------|------------------|----------------------------------|--------------------------|-----------------------------|-----------------------------|---|------|------------------------------|---------------------------|------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND.<br>TEMP<br>DEG.C | MG/L<br>AS N             | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS N                            | PH   | UG/L<br>PHENOL               | MG/L<br>AS P              | MG/L<br>AS P                 |
| MAXIMUM                  |           |                  | 24.0                             | 0.170                    | 0.340                       | 18.000                      | 1.800                                   | 8.37 | 2.500                        | 0.150                     | 0.325                        |
| ARITH MEAN               |           |                  | 9.1                              | 0.065                    | 0.078                       | 6.830                       | 1.149                                   | 7.95 | 1.667                        | 0.062                     | 0.139                        |
| GEOM MEAN                |           |                  | 4.4                              | 0.040                    | 0.044                       |                             | 1.041                                   | 7.94 |                              | 0.045                     | 0.115                        |
| MINIMUM                  |           |                  | 1.0                              | 0.004                    | 0.010                       | 0.200                       | 0.460                                   | 7.68 | 1.000                        | 0.016                     | 0.034                        |
| STD DEV (GEOM *)         |           |                  | 9.3                              | 0.054                    | 0.099                       |                             | 0.480                                   | 0.21 |                              | 0.052                     | 0.083                        |
| # SAMP IN STATISTICS     |           |                  | 11                               | 11                       | 11                          | 10                          | 11                                      | 11   | 3                            | 11                        | 11                           |
| % SAMP (EXCLUDED)        |           |                  |                                  |                          |                             | 9                           |   |      | 50                           |                           |                              |

| *INTERIM TEST-NAME:      |           | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSF                         | RSP                        | SS04UR<br>SULPHATE<br>UNF.REAC | TURB<br>TURB'ITY |
|--------------------------|-----------|-----------------------------------|-----------------------------|----------------------------|--------------------------------|------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER<br>/100ML        | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L | MG/L<br>AS SO4                 | FTU              |
| 870107                   | 1100      | 40406                             | 4<                          | 442.8                      | 9.2                            | 75.000           |
| 870202                   | 1014      | 40416                             | 4<                          | 524.5                      | 5.5                            | 84.000           |
| 870303                   |           | 40426                             | 4                           | 307.0                      | 59.0                           | 24.000           |
| 870331                   | 1000      | 40436                             | 24                          | 404.1                      | 103.9                          | 54.000           |
| 870511                   | 1015      | 40446                             | 4<                          | 421.6                      | 32.4                           | 64.500           |
| 870707                   | 1000      | 40466                             | 4<                          | 396.1                      | 51.9                           | 58.500           |
| 870805                   | 1000      | 40476                             | 4<                          | 366.6                      | 93.4                           | 62.000           |
| 870902                   | 1023      | 40486                             | 12                          | 401.2                      | 68.8                           |                  |
| 871006                   | 1127      | 40496                             | 20C                         | 523.5                      | 48.5                           | 75.500           |
| 871102                   | 1030      | 40506                             | 8                           | 477.5                      | 60.5                           | 76.500           |
| 871201                   | 1120      | 40516                             | 30AID                       | 473.4                      | 32.6                           | 55.500           |
| MAXIMUM                  |           | 30                                | 524.5                       | 103.9                      | 84.000                         | 167.00           |
| ARITH MEAN               |           | 16                                | 430.8                       | 51.4                       | 62.950                         | 81.66            |
| GEOM MEAN                |           |                                   | 426.0                       | 39.0                       | 60.075                         | 58.00            |
| MINIMUM                  |           | 4                                 | 307.0                       | 5.5                        | 24.000                         | 6.10             |
| STD DEV (GEOM *)         |           |                                   | 66.2                        | 30.9                       | 17.014                         | 49.87            |
| # SAMP IN STATISTICS     |           | 6                                 | 11                          | 11                         | 10                             | 11               |
| % SAMP (EXCLUDED)        |           | 45                                |                             |                            |                                |                  |

## 1987 WATER QUALITY DATA REGION 1

138

B.O.W./ SITE: HICKORY CREEK  
 SAMPLE POINT: AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST  
 STATION TYPE: RIVER

STATION ID: 08-0010-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: HICKORY CREEK

STORET CODE: 02  
 002  
 0100

LAT: 43 06 03.35 LONG: 082 01 55.58 U T M: 17 0416010.0 4772325.0 4 REGION: 01 DISTANCE: 8.529

| *=INTERIM TEST-NAME: |      | FMSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | LMT  | M      | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870107               | 1140 | 40407  | 0101     | 283.0    | 1.77     |          | 35.500   | 770.0    | 0.012    | 6.0      | 196      |
| 870202               |      | 40417  | 0101     | 282.0    | 0.82     |          | 150.000  | 1150.0   | 0.001    | 10.0     | 364      |
| 870303               | 1045 | 40427  | 0101     | 147.0    | 2.64     |          | 17.000   | 454.0    | 0.004    | 10.0     | 290      |
| 870331               | 1100 | 40437  | 0101     | 206.0    | 1.86     | 81.500   |          | 810.0    |          | 9.0      | 460      |
| 870511               | 1100 | 40447  | 0101     | 213.0    | 2.78     |          | 57.500   | 710.0    | 0.006    | 12.0     | 16       |
| 870707               | 1045 | 40467  | 0101     | 133.0    | 1.50     |          | 49.500   | 495.0    | 0.004    | 8.0      | 260      |
| 870805               | 1045 | 40477  | 0101     | 75.0     | 5.66     |          | 71.500   | 690.0    | 0.010    | 7.0      | 610      |
| 870902               | 1056 | 40487  | 0101     |          | 2.30     | 77.500   |          | 443.0    | 0.009    | 6.0      | 820      |
| 871006               | 1200 | 40497  | 0101     | 223.3    | 0.90     | 54.750   |          | 790.0    | 0.005    |          | 230      |
| 871102               | 1104 | 40507  | 0101     | 270.1    | 0.64     | 45.020   |          | 800.0    | 0.001<   | 13.0     | 190      |
| 871201               | 1120 | 40517  | 0101     | 207.1    | 1.8      | 32.800   |          | 625.0    | 0.006    | 10.0     | 700AID   |
| MAXIMUM              |      | 0.30   |          | 283.0    | 5.66     | 81.500   | 150.000  | 1150.0   | 0.012    | 13.0     | 820      |
| ARITH MEAN           |      | 0.30   |          | 203.9    | 2.1      | 58.314   | 63.500   | 703.4    | 0.006    | 9.1      | 376      |
| GEOM MEAN            |      |        |          | 190.9    | 1.7      | 55.160   | 51.391   | 677.6    |          | 8.8      | 272      |
| MINIMUM              |      | 0.30   |          | 75.0     | 0.64     | 32.800   | 17.000   | 443.0    | 0.001    | 6.0      | 16       |
| STD DEV (GEOM *)     |      |        |          | 68.4     | 1.4      | 20.893   | 46.313   | 203.0    |          | 2.4      | 3*       |
| # SAMP IN STATISTICS |      | 11     |          | 10       | 11       | 5        | 6        | 11       | 9        | 10       | 11       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 10       |          |          |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PHNOL    |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      | PHENOLS  |
|                      |      | STREPCUS |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |      | UNF-REAC |
| SAMPLE               |      | MF       | STREAM | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UG/L     |
| DATE                 | HOUR | CNT      | COND.  | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   | PHENOL   |
| YYMMDD               | LMT  | /100ML   |        | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |          |
| 870107               | 1140 | 64       | 6      | 1.0    | 0.075    | 0.020    | 6.300    | 0.600    | 0.003<   | 8.20 |          |
| 870202               |      | 68       | 4      | 1.0    | 0.240    | 0.040    | 5.100    | 0.600    | 0.003<   | 7.94 |          |
| 870303               | 1045 | 1500>    | 3      | 1.0    | 0.050    | 0.170    | 6.500    | 1.160    | 0.003<   | 7.73 |          |
| 870331               | 1100 | 160      | 3      | 10.0   | 0.090    | 0.370    | 9.000    | 1.650    |          | 7.98 |          |
| 870511               | 1100 | 20       | 6      | 22.0   | 0.005<   | 0.040    | 2.300    | 1.200    | 0.003<   | 7.93 |          |
| 870707               | 1045 | 164      | 6      | 22.0   | 0.110    | 0.070    | 0.200    | 0.950    | 0.003<   | 7.72 | 1.000<   |
| 870805               | 1045 | 390      | 6      | 24.0   | 0.120    | 0.280    | 4.800    | 2.500    | 0.003<   | 7.87 |          |
| 870902               | 1056 | 1200     | 6      | 20.0   | 0.090    | 0.100    | 0.200    | 0.750    | 0.003<   | 7.81 |          |
| 871006               | 1200 | 130      | 6      | 13.0   | 0.010    | 0.110    | 16.500   | 1.080    | 0.003<   | 8.20 |          |
| 871102               | 1104 | 50AID    | 6      | 1.0    | 0.026    | 0.060    | 12.800   | 0.580    | 0.003<   | 8.18 |          |
| 871201               | 1120 | 1800     | 3      | 5.0    | 0.008    | 0.040    | 11.600   | 1.550    | 0.003<   | 7.95 |          |

( C O N T D )

B.O.W./ SITE: HICKORY CREEK  
 SAMPLE POINT: AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST  
 STATION TYPE: RIVER

STATION ID: 08-0010-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: HICKORY CREEK

STORET CODE: 02  
 002  
 0100

LAT: 43 06 03.35 LONG: 082 01 55.58

U T M: 17 0416010.0 4772325.0 4

REGION: 01

DISTANCE: 8.529

| *INTERIM TEST-NAME:      |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|------|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |      |  |
|                          |             | MAXIMUM  | 1800                      | 24.0                             | 0.240  | 0.370                                       | 16.500                                      | 2.500   |   | 8.20 |  |
|                          |             | ARITH MEAN                                       | 405                       | 10.9                             | 0.082  | 0.118                                       | 6.845                                       | 1.147   |   | 7.96 |  |
|                          |             | GEOM MEAN  |                           | 5.5                              |  | 0.081                                       | 3.745                                       | 1.033   |   | 7.95 |  |
|                          |             | MINIMUM  | 20                        | 1.0                              | 0.008  | 0.020                                       | 0.200                                       | 0.580   |   | 7.72 |  |
|                          |             | STD DEV (GEOM *)                                 |                           | 9.7                              |  | 0.112                                       | 5.221                                       | 0.581   |   | 0.18 |  |
|                          |             | # SAMP IN STATISTICS                             | 10                        | 11                               | 10   | 11  | 11  | 11  |   | 11   |  |
|                          |             | % SAMP (EXCLUDED)                                | 9                         |                                  | 9  |   |   |   |   |      |  |

| *INTERIM TEST-NAME:      |             | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | SS04UR<br>SULPHATE<br>UNF.REAC<br>MG/L<br>AS S04 | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|---|--|--|-----------------------------------|--|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                          |  |  |                                   |  |                         |   |
| 870107                   | 1140        | 40407                                     | 0.036  | 0.440  | 4<                                |  | 9.30                    | 0.008                                     |
| 870202                   |             | 40417                                     | 0.042  | 0.066  | 4<                                | 5.2  | 6.10                    | 0.012                                     |
| 870303                   | 1045        | 40427                                     | 0.133  | 0.242  | 4<                                | 51.8   | 75.00                   | 0.013                                     |
| 870331                   | 1100        | 40437                                     | 0.067  | 0.295  | 12                                | 61.8   | 73.00                   |   |
| 870511                   | 1100        | 40447                                     | 0.037  | 0.188  | 4<                                | 57.4   | 33.00                   | 0.020<                                    |
| 870707                   | 1045        | 40467                                     | 0.016  | 0.135  | 4<                                | 43.7   | 48.00                   | 0.010                                     |
| 870805                   | 1045        | 40477                                     | 0.031  | 0.580  | 12                                | 105.0  | 475.00                  | 0.052                                     |
| 870902                   | 1056        | 40487                                     | 0.056  | 0.150  | 4                                 | 104.7  | 104.00                  | 0.015                                     |
| 871006                   | 1200        | 40497                                     | 0.111  | 0.102  | 4                                 | 22.8   | 32.00                   | 0.008                                     |
| 871102                   | 1104        | 40507                                     | 0.043  | 0.134  | 4<                                | 19.9   | 22.00                   | 0.010                                     |
| 871201                   | 1120        | 40517                                     | 0.090  | 0.130  | 10<                               | 22.8   | 29.00                   | 0.010                                     |
|                          |             | MAXIMUM                                   | 0.133  | 0.580  | 12                                | 105.0  | 475.00                  | 0.052                                     |
|                          |             | ARITH MEAN                                | 0.060  | 0.224  | 8                                 | 49.5   | 69.000                  | 0.015                                     |
|                          |             | GEOM MEAN                                 | 0.051  | 0.184  |                                   | 37.0   | 40.62                   |   |
|                          |             | MINIMUM                                   | 0.016  | 0.066  | 4                                 | 5.2  | 6.10                    | 0.008                                     |
|                          |             | STD DEV (GEOM *)                          | 0.037  | 0.158  |                                   | 34.4   | 133.63                  |   |
|                          |             | # SAMP IN STATISTICS                      | 11   | 11   | 4                                 | 10   | 11                      | 9   |
|                          |             | % SAMP (EXCLUDED)                         |  |  | 63                                |  |                         | 10  |

## 1987 WATER QUALITY DATA REGION 1

140

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *=INTERIM                |             | TEST-NAME:       | FWSADP               | FGPROJ                      | ALKT                             | ASUT                                 | CCNAUR<br>CYANIDE<br>AVAIL | CDUT                                 | CLIDUR                                | CLIDUR                                 | COND25                                | CUUT                                |
|--------------------------|-------------|------------------|----------------------|-----------------------------|----------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | UNF.REAC<br>MG/L<br>AS HCN | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU |
| 870106                   | 0930        | 42800            | 0.30                 | 0103                        | 278.7                            |                                      |                            | 0.0002<                              |                                       |  | 643.0                                 | 0.003                               |
| 870112                   | 0930        | 42801            | 0.30                 | 0103                        | 279.6                            |                                      |                            | 0.0002<                              |                                       |  | 644.0                                 | 0.003                               |
| 870113                   | 1120        | 36810            | 0.30                 | 0101                        | 272.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 21.500                                 | 645.0                                 | 0.003<                              |
| 870119                   | 1000        | 42802            | 0.30                 | 0103                        | 258.8                            |                                      |                            | 0.0003<                              |                                       |  | 618.0                                 | 0.002                               |
| 870210                   | 1305        | 36823            | 0.30                 | 0101                        | 287.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 26.500                                 | 715.0                                 | 0.003<                              |
| 870308                   | 1000        | 42803            | 0.30                 | 0103                        | 136.8                            |                                      |                            | 0.0003<                              |                                       |  | 335.0                                 | 0.012                               |
|                          | 1800        | 42804            | 0.30                 | 0103                        | 135.3                            |                                      |                            | 0.0003<                              |                                       |  | 330.0                                 | 0.010                               |
| 870309                   | 1000        | 42805            | 0.30                 | 0103                        | 140.7                            |                                      |                            | 0.0003<                              |                                       |  | 344.0                                 | 0.006                               |
|                          | 1210        | 36836            | 0.30                 | 0101                        | 138.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              | 10.500                                |  | 364.0                                 | 0.004                               |
|                          | 1600        | 42806            | 0.30                 | 0103                        | 137.6                            |                                      |                            | NO DATA BT                           |                                       |  | 336.0                                 | NO DATA BT                          |
| 870310                   | 1000        | 42807            | 0.30                 | 0103                        | 142.0                            |                                      |                            | 0.0003<                              |                                       |  | 353.0                                 | 0.004                               |
|                          | 1500        | 42808            | 0.30                 | 0103                        | 145.1                            |                                      |                            | 0.0003<                              |                                       |  | 365.0                                 | 0.003                               |
| 870311                   | 1000        | 42809            | 0.30                 | 0103                        | 159.4                            |                                      |                            | 0.0003<                              |                                       |  | 399.0                                 | 0.002                               |
| 870312                   | 1230        | 42810            | 0.30                 | 0103                        | 175.4                            |                                      |                            | 0.0003<                              |                                       |  | 430.0                                 | 0.003                               |
| 870314                   | 1000        | 42811            | 0.30                 | 0103                        | 196.9                            |                                      |                            | 0.0002<                              |                                       |  | 478.0                                 | 0.004                               |
| 870316                   | 1000        | 42812            | 0.30                 | 0103                        | 228.2                            |                                      |                            | 0.0002<                              |                                       |  | 535.0                                 | 0.003                               |
| 870318                   | 0930        | 42813            | 0.30                 | 0103                        | 239.9                            |                                      |                            | 0.0002<                              |                                       |  | 560.0                                 | 0.004                               |
| 870321                   | 1300        | 42814            | 0.30                 | 0103                        | 246.5                            |                                      |                            | 0.0002<                              |                                       |  | 566.0                                 | 0.003                               |
| 870323                   | 0800        | 42815            | 0.30                 | 0103                        | 252.4                            |                                      |                            | 0.0002<                              |                                       |  | 576.0                                 | 0.004                               |
| 870326                   |             | 44409            | 0.30                 | 0103                        | 225.9                            |                                      |                            | 0.0003<                              |                                       |  | 509.0                                 | 0.001                               |
| 870327                   | 1230        | 42816            | 0.30                 | 0103                        | 227.5                            |                                      |                            | 0.0002<                              |                                       |  | 512.0                                 | 0.004                               |
| 870401                   | 1230        | 42817            | 0.30                 | 0103                        | 218.5                            |                                      |                            | 0.0003<                              |                                       |  | 549.0                                 | 0.004                               |
| 870408                   | 1230        | 42818            | 0.30                 | 0103                        | 242.2                            |                                      |                            | 0.0006                               |                                       |  | 555.0                                 | 0.004                               |
| 870412                   | 1930        | 42819            | 0.30                 | 0103                        | 194.3                            |                                      |                            | 0.0004                               |                                       |  | 499.0                                 | 0.006                               |
| 870413                   | 1315        | 36849            | 0.30                 | 0101                        | 230.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 19.500                                 | 570.0                                 | 0.025<                              |
| 870420                   | 0830        | 42920            | 0.30                 | 0103                        | 239.8                            |                                      |                            | 0.0002<                              |                                       |  | 558.0                                 | 0.004                               |
| 870426                   | 1100        | 42821            | 0.30                 | 0103                        | 241.8                            |                                      |                            | 0.0002<                              |                                       |  | 564.0                                 | 0.004                               |
| 870428                   | 1230        | 42822            | 0.30                 | 0103                        | 243.4                            |                                      |                            | 0.0002<                              |                                       |  | 561.0                                 | 0.005                               |
| 870505                   | 0830        | 42823            | 0.30                 | 0103                        | 221.0                            |                                      |                            | 0.0002<                              |                                       |  | 542.0                                 | 0.006                               |
| 870510                   | 2030        | 42824            | 0.30                 | 0103                        | 220.5                            |                                      |                            | 0.0002<                              |                                       |  | 536.0                                 | 0.006                               |
| 870511                   | 1340        | 36862            | 0.30                 | 0101                        | 218.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 23.000                                 | 580.0                                 | 0.001                               |
| 870513                   | 1300        | 42825            | 0.30                 | 0103                        | 218.9                            |                                      |                            | 0.0002<                              |                                       |  | 537.0                                 | 0.005                               |
| 870518                   | 1030        | 42826            | 0.30                 | 0103                        | 218.8                            |                                      |                            | 0.0002<                              |                                       |  | 530.0                                 | 0.006                               |
| 870531                   | 1600        | 42827            | 0.30                 | 0103                        | 214.5                            |                                      |                            | 0.0002<                              |                                       |  | 504.0                                 | 0.006                               |
| 870606                   | 1200        | 42828            | 0.30                 | 0103                        | 199.2                            |                                      |                            | 0.0002<                              |                                       |  | 525.0                                 | 0.005                               |
| 870608                   | 1310        | 36875            | 0.30                 | 0101                        | 196.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 20.000                                 | 540.0                                 | 0.003                               |
| 870622                   | 0930        | 42829            | 0.30                 | 0103                        | 206.5                            |                                      |                            | 0.0003<                              |                                       |  | 506.0                                 | 0.002                               |
| 870628                   | 1230        | 42830            | 0.30                 | 0103                        | 175.2                            |                                      |                            | 0.0003                               |                                       |  | 449.0                                 | 0.005                               |
| 870712                   | 0930        | 42831            | 0.30                 | 0103                        | 175.6                            |                                      |                            | 0.0002<                              |                                       |  | 446.0                                 | 0.004                               |
| 870713                   | 1315        | 36888            | 0.30                 | 0101                        | 286.0                            | 0.001<                               | 0.001<W                    | 0.0003<                              |                                       | 19.000                                 | 452.0                                 | 0.002                               |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

141

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *=INTERIM TEST-NAME:     |             | FWSADP                    | FGPROJ                      | ALKT                             | ASUT                                 | CCNAUR<br>CYANIDE<br>AVAIL            | CDUT                                 | CLIDUR                                | CLIDUR                                 | COND25                                | CUUT                                |
|--------------------------|-------------|---------------------------|-----------------------------|----------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>DEPTH<br>NUMBER | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | CADMIUM<br>UNF.REAC<br>MG/L<br>AS HCN | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU |
| 870719                   | 1000        | 42832                     | 0.30                        | 0103                             | 173.6                                |                                       | 0.0002<                              |                                       |  | 424.0                                 | 0.004                               |
| 870731                   | 1700        | 42833                     | 0.30                        | 0103                             | 173.9                                |                                       | 0.0002<                              |                                       |  | 444.0                                 | 0.006                               |
| 870809                   | 1830        | 42834                     | 0.30                        | 0103                             | 172.7                                |                                       | NO DATA SM                           |                                       |  | 457.0                                 | NO DATA SM                          |
| 870810                   | 1305        | 36901                     | 0.30                        | 0101                             | 170.0                                | 0.001<                                | 0.001<W                              | 0.0003<                               | 19.500                                 | 464.0                                 | 0.001                               |
| 870907                   | 1700        | 42837                     | 0.30                        | 0103                             | 184.2                                |                                       | 0.0002                               |                                       |  | 477.0                                 | 0.004                               |
| 870914                   | 1310        | 36914                     | 0.30                        | 0101                             |                                      | 0.001<                                | 0.002<T                              | 0.0003<                               | 17.500                                 | 484.0                                 | 0.002                               |
| 870919                   | 1500        | 42838                     | 0.30                        | 0103                             | 182.3                                |                                       | 0.0002<                              |                                       |  | 483.0                                 | 0.004                               |
| 870925                   | 1530        | 42839                     | 0.30                        | 0103                             | 196.3                                |                                       | 0.0002<                              |                                       |  | 583.0                                 | 0.004                               |
| 871012                   | 1130        | 42840                     | 0.30                        | 0103                             | 197.0                                |                                       | 0.0002<                              |                                       |  | 582.0                                 | 0.004                               |
| 871014                   | 1320        | 36927                     | 0.30                        | 0101                             | 194.5                                | 0.001<                                | 0.001<W                              | 0.0003<                               | 28.640                                 | 615.0                                 | 0.003                               |
| 871028                   | 1700        | 42841                     | 0.30                        | 0103                             | 180.6                                |                                       | 0.0003<                              |                                       |  | 589.0                                 | 0.006                               |
| 871109                   | 1255        | 36940                     | 0.30                        | 0101                             | 224.9                                | 0.001<                                | NO DATA NR                           | 0.0003<                               | 33.540                                 | 670.0                                 | 0.002                               |
| 871214                   | 1300        | 36953                     | 0.30                        | 0101                             | 198.3                                | 0.001<                                | 0.001<W                              | 0.0003<                               | 24.370                                 | 560.0                                 | 0.003                               |
|                          |             | MAXIMUM                   | 0.30                        |                                  | 287.0                                |                                       | 0.002                                | 0.0006                                | 33.540                                 | 26.500                                | 0.012                               |
|                          |             | ARITH MEAN                | 0.30                        |                                  | 206.0                                |                                       | 0.001<A                              | 0.0004                                | 22.910                                 | 21.286                                | 0.004                               |
|                          |             | GEOM MEAN                 |                             |                                  | 201.8                                |                                       | 0.001<A                              |                                       | 21.219                                 | 21.151                                | 502.6                               |
|                          |             | MINIMUM                   | 0.30                        |                                  | 135.3                                |                                       | 0.001                                | 0.0002                                | 10.500                                 | 19.000                                | 330.0                               |
|                          |             | STD DEV (GEOM *)          |                             |                                  | 41.4                                 |                                       | 0.000<A                              |                                       | 9.100                                  | 2.690                                 | 91.6                                |
|                          |             | # SAMP IN STATISTICS      | 53                          |                                  | 52                                   |                                       | 11                                   | 4                                     | 5                                      | 7                                     | 53                                  |
|                          |             | % SAMP (EXCLUDED)         |                             |                                  |                                      |                                       |                                      | 92                                    |  |                                       | 48                                  |
|                          |             |                           |                             |                                  |                                      |                                       |                                      |                                       |  |                                       | 5                                   |

| *=INTERIM TEST-NAME:     |             | DO                                 | FCMF<br>FECAL<br>COLIFORM | FEUT                              | FSMF<br>FECAL<br>STREPCUS | FWFLOW                     | FWSTRC          | FWTEMP                 | HGUT                                 | NNHTUR<br>NH3-N<br>TOTAL | NNOTFR                               |
|--------------------------|-------------|------------------------------------|---------------------------|-----------------------------------|---------------------------|----------------------------|-----------------|------------------------|--------------------------------------|--------------------------|--------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | DISOLVED<br>OXYGEN<br>MG/L<br>AS O | MF<br>CNT<br>/100ML       | IRON<br>UNF.TOT.<br>MG/L<br>AS FE | MF<br>CNT<br>/100ML       | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | MERCURY<br>UNF.TOT.<br>UG/L<br>AS HG | UNF.REAC<br>MG/L<br>AS N | NO2+NO3N<br>FIL.REAC<br>MG/L<br>AS N |
| 870106                   | 0930        |                                    |                           |                                   |                           | 9.728                      |                 |                        | 0.01<                                |                          | 4.640                                |
| 870112                   | 0930        |                                    |                           |                                   |                           | 7.910                      |                 |                        | 0.01<                                |                          | 4.660                                |
| 870113                   | 1120        | 36810                              | 14.0                      | 36                                | 0.360                     | 16                         | 7.437           | 6                      | 1.0                                  | NO DATA SS               | 0.145                                |
| 870119                   | 1000        | 42802                              |                           |                                   |                           |                            | 13.440          |                        | 0.01<                                |                          | 4.950                                |
| 870210                   | 1305        | 36823                              | 13.0                      |                                   | 0.390                     |                            | 2.509           | 4                      | 1.0                                  |                          | 0.215                                |
| 870308                   | 1000        | 42803                              |                           |                                   |                           |                            | 145.920         |                        | 0.03                                 |                          | 4.300                                |
|                          | 1800        | 42804                              |                           |                                   |                           |                            | 145.920         |                        | 0.03                                 |                          | 4.320                                |
| 870309                   | 1000        | 42805                              |                           |                                   |                           |                            | 161.280         |                        | 0.02                                 |                          | 4.710                                |
|                          | 1210        | 36836                              | 10.0                      |                                   | 4.600                     |                            | 161.280         | 6                      | 1.0                                  | 0.045                    |                                      |
|                          | 1600        | 42806                              |                           |                                   |                           |                            | 161.280         |                        | 0.02                                 |                          | 4.670                                |
| 870310                   | 1000        | 42807                              |                           |                                   |                           |                            | 123.648         |                        | 0.01                                 |                          | 5.300                                |

( C O N T D )

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *=INTERIM |      | TEST-NAME: | DO       | FCMF     | FEUT     | FSMF     | FWFLOW  | FWSTRC | FWTEMP | HGUT       | NNHTUR   | NNOTFR   |
|-----------|------|------------|----------|----------|----------|----------|---------|--------|--------|------------|----------|----------|
|           |      |            | DISOLVED | FECAL    | IRON     | FECAL    | STREAM  |        |        | MERCURY    | NH3-N    | NO2+NO3N |
| SAMPLE    |      |            | OXYGEN   | COLIFORM | UNF.TOT. | STREPCUS | FLOW    |        | WATER  | UNF.TOT.   | UNF.REAC | FIL.REAC |
| DATE      | HR   | SAMPLE     | MG/L     | MF       | MG/L     | MF       | M3      | STREAM | TEMP   | UG/L       | MG/L     | MG/L     |
| YYMMDD    | LMT  | NUMBER     | AS O     | CNT      | AS FE    | CNT      | /S      | COND.  | DEG.C  | AS HG      | AS N     | AS N     |
| 870310    | 1500 | 42808      |          |          |          |          | 123.648 |        |        | 0.01       |          | 4.650    |
| 870311    | 1000 | 42809      |          |          |          |          | 75.904  |        |        | 0.01       |          | 4.630    |
| 870312    | 1230 | 42810      |          |          |          |          | 45.952  |        |        | 0.01<      |          | 6.200    |
| 870314    | 1000 | 42811      |          |          |          |          | 18.816  |        |        | 0.01<      |          | 5.630    |
| 870316    | 1000 | 42812      |          |          |          |          | 13.440  |        |        | 0.01<      |          | 5.500    |
| 870318    | 0930 | 42813      |          |          |          |          | 13.184  |        |        | 0.01<      |          | 4.680    |
| 870321    | 1300 | 42814      |          |          |          |          | 15.872  |        |        | 0.01<      |          | 3.430    |
| 870323    | 0800 | 42815      |          |          |          |          | 16.128  |        |        | 0.01<      |          | 2.420    |
| 870326    |      | 44409      |          |          |          |          | 14.976  |        |        | 0.01       |          | 3.730    |
| 870327    | 1230 | 42816      |          |          |          |          | 14.080  |        |        | 0.01<      |          | 1.780    |
| 870401    | 1230 | 42817      |          |          |          |          | 34.176  |        |        | 0.01<      |          | 5.350    |
| 870408    | 1230 | 42818      |          |          |          |          | 44.160  |        |        | 0.01<      |          | 4.900    |
| 870412    | 1930 | 42819      |          |          |          |          | 14.208  |        |        | 0.01       |          | 4.890    |
| 870413    | 1315 | 36849      | 11.0     | 1600     | 8.500    | 580      | 22.016  | 6      | 10.5   | 0.03       | 0.010    |          |
| 870420    | 0830 | 42920      |          |          |          |          | 9.293   |        |        | 0.01<      |          | 3.830    |
| 870426    | 1100 | 42821      |          |          |          |          | 6.118   |        |        | 0.01<      |          | 3.840    |
| 870428    | 1230 | 42822      |          |          |          |          | 5.235   |        |        | 0.01<      |          | 3.560    |
| 870505    | 0830 | 42823      |          |          |          |          | 3.981   |        |        | 0.01<      |          | 2.830    |
| 870510    | 2030 | 42824      |          |          |          |          | 0.856   |        |        | 0.01<      |          | 2.780    |
| 870511    | 1340 | 36862      | 9.0      | 30AID    | 0.540    | 10<      | 0.753   | 6      | 19.0   | 0.02       | 0.010    |          |
| 870513    | 1300 | 42825      |          |          |          |          | 2.547   |        |        | 0.01       |          | 2.220    |
| 870518    | 1030 | 42826      |          |          |          |          | 1.613   |        |        | 0.01       |          | 2.210    |
| 870531    | 1600 | 42827      |          |          |          |          | 11.162  |        |        | 0.01<      |          | 2.070    |
| 870606    | 1200 | 42828      |          |          |          |          | 4.941   |        |        | 0.01<      |          | 4.960>   |
| 870608    | 1310 | 36875      | 8.0      | 212      | 2.400    | 212      | 1.190   | 5      | 22.0   | 0.01       | 0.025    |          |
| 870622    | 0930 | 42829      |          |          |          |          | 0.640   |        |        | 0.01<      |          | 3.300    |
| 870628    | 1230 | 42830      |          |          |          |          | 0.755   |        |        | 0.01       |          | 0.345    |
| 870712    | 0930 | 42831      |          |          |          |          | 1.728   |        |        | 0.01<      |          | 0.340    |
| 870713    | 1315 | 36888      | 7.0      | 120      | 1.200    | 190      | 1.306   | 9 5    | 27.5   | 0.02       | 0.030    |          |
| 870719    | 1000 | 42832      |          |          |          |          | 0.616   |        |        | NO DATA SS |          | 0.085<T  |
| 870731    | 1700 | 42833      |          |          |          |          | 0.527   |        |        | 0.01<      |          | 0.155    |
| 870809    | 1830 | 42834      |          |          |          |          | 1.221   |        |        | 0.01<      |          | 0.645    |
| 870810    | 1305 | 36901      | 8.0      | 380      | 0.850    | 180      | 1.382   | 5      | 23.5   | 0.02       | 0.005<   |          |
| 870907    | 1700 | 42837      |          |          |          |          | 0.635   |        |        |            |          | 0.260    |
| 870914    | 1310 | 36914      | 8.5      | 110      | 0.720    | 190      | 0.870   | 9 5    | 20.5   | 0.01       | 0.015    |          |
| 870919    | 1500 | 42838      |          |          |          |          | 0.920   |        |        | 0.01<      |          | 0.605    |
| 870925    | 1530 | 42839      |          |          |          |          | 0.676   |        |        | 0.01<      |          | 3.140    |
| 871012    | 1130 | 42840      |          |          |          |          | 1.222   |        |        | 0.01<      |          | 3.100    |
| 871014    | 1320 | 36927      | 11.0     | 60AID    | 0.610    | 10AID    | 0.835   | 5      | 9.0    | 0.02       | 0.005<   |          |
| 871028    | 1700 | 42841      |          |          |          |          | 13.056  |        |        | 0.01       |          | 8.500    |

( C O N T D )

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *=INTERIM            |      | TEST-NAME:       | DO           | FCMF<br>FECAL<br>COLIFORM | FEUT<br>IRON<br>UNF.TOT. | FSMF<br>FECAL<br>STREPCUS | FWFLOW<br>STREAM<br>FLOW | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP | HGUT<br>MERCURY<br>UNF.TOT. | NNHTUR<br>NH3-N<br>TOTAL | NNOTFR<br>NO2+NO3N<br>FIL.REAC |
|----------------------|------|------------------|--------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|-------------------------|-----------------------------|--------------------------|--------------------------------|
| SAMPLE<br>DATE       | HR   | SAMPLE<br>NUMBER | MG/L<br>AS O | CNT<br>/100ML             | MG/L<br>AS FE            | CNT<br>/100ML             | M3<br>/S                 |                           | DEG.C                   | UG/L<br>AS HG               | MG/L<br>AS N             | MG/L<br>AS N                   |
| 871109               | 1255 | 36940            | 11.0         | 60AID                     | 0.590                    | 60AID                     | 9.920                    | 6                         | 6.5                     | 0.01                        | 0.212                    |                                |
| 871214               | 1300 | 36953            | 13.0         | 230                       | 1.100                    | 280                       | 26.240                   | 6                         | 3.5                     | 0.01<                       | 0.027                    |                                |
| MAXIMUM              |      |                  | 14.0         | 1600                      | 8.500                    | 580                       | 161.280                  |                           | 27.5                    | 0.03                        | 0.215                    | 8.500                          |
| ARITH MEAN           |      |                  | 10.3         | 284                       | 1.822                    | 191                       | 28.625                   |                           | 12.1                    | 0.02                        | 0.073                    | 3.479<A                        |
| GEOM MEAN            |      |                  | 10.1         | 131                       | 1.062                    |                           | 7.082                    |                           | 6.9                     |                             |                          |                                |
| MINIMUM              |      |                  | 7.0          | 30                        | 0.360                    | 10                        | 0.527                    |                           | 1.0                     | 0.01                        | 0.010                    | 0.085                          |
| STD DEV (GEOM *)     |      |                  | 2.3          | 3*                        | 2.422                    |                           | 48.593                   |                           | 9.9                     |                             |                          |                                |
| # SAMP IN STATISTICS |      |                  | 12           | 10                        | 12                       | 9                         | 53                       |                           | 12                      | 23                          | 10                       | 40                             |
| % SAMP (EXCLUDED)    |      |                  |              |                           |                          | 10                        |                          |                           |                         | 54                          | 16                       | 2                              |

| *=INTERIM      |      | TEST-NAME:       | NN02FR                   | NN02UR                   | NN03UR                   | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD              | PH   | PP04FR                   | PP04UR                   | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG. |
|----------------|------|------------------|--------------------------|--------------------------|--------------------------|-----------------------------|---------------------------|------|--------------------------|--------------------------|--------------------------------------|-----------------------------|
| SAMPLE<br>DATE | HR   | SAMPLE<br>NUMBER | FIL.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB |      | FIL.REAC<br>MG/L<br>AS P | UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML         |
| 870106         | 0930 | 42800            | 0.0180                   |                          |                          |                             | 0.053                     | 8.29 | 0.0210                   |                          | 0.037                                |                             |
| 870112         | 0930 | 42801            | 0.0185                   |                          |                          |                             | 0.007                     | 8.30 | 0.0200                   |                          | 0.041                                |                             |
| 870113         | 1120 | 36810            |                          | 0.010                    | 4.500                    | 0.640                       | 0.030<                    | 8.30 |                          | 0.028                    | 0.051                                | 4<                          |
| 870119         | 1000 | 42802            | 0.0270                   |                          |                          |                             | 0.029                     | 8.24 | 0.0415                   |                          | 0.067                                |                             |
| 870210         | 1305 | 36823            |                          | 0.010<                   | 4.400                    | 0.800                       | 0.030<                    | 8.05 |                          | 0.024                    | 0.055                                |                             |
| 870308         | 1000 | 42803            | 0.1040                   |                          |                          |                             | 0.029                     | 7.96 | 0.1600                   |                          | 0.55                                 |                             |
|                | 1800 | 42804            | 0.0990                   |                          |                          |                             | 0.023                     | 7.96 | 0.2450                   |                          | 0.85                                 |                             |
| 870309         | 1000 | 42805            | 0.0545                   |                          |                          |                             | 0.059                     | 8.09 | 0.1160                   |                          | 1.11                                 |                             |
|                | 1210 | 36836            |                          | 0.140                    | 5.100                    | 1.200                       | 0.007                     | 7.86 |                          | 0.109                    | 0.310                                |                             |
|                | 1600 | 42806            | 0.0565                   |                          |                          |                             | NO DATA BT                | 8.03 | 0.1150                   |                          | 1.21                                 |                             |
| 870310         | 1000 | 42807            | 0.0515                   |                          |                          |                             | 0.016                     | 8.06 | 0.2270                   |                          | 0.295                                |                             |
|                | 1500 | 42808            | 0.0475                   |                          |                          |                             | 0.019                     | 8.08 | 0.1130                   |                          | 0.230                                |                             |
| 870311         | 1000 | 42809            | 0.0735                   |                          |                          |                             | 0.015                     | 8.19 | 0.1020                   |                          | 0.182                                |                             |
| 870312         | 1230 | 42810            | 0.0535                   |                          |                          |                             | 0.130                     | 8.26 | 0.0845                   |                          | 0.170                                |                             |
| 870314         | 1000 | 42811            | 0.0060                   |                          |                          |                             | 0.042                     | 8.36 | 0.0905                   |                          | 0.146                                |                             |
| 870316         | 1000 | 42812            | 0.0390                   |                          |                          |                             | 0.012                     | 8.40 | 0.0570                   |                          | 0.091                                |                             |
| 870318         | 0930 | 42813            | 0.0720                   |                          |                          |                             | 0.046                     | 8.31 | 0.0490                   |                          | 0.079                                |                             |
| 870321         | 1300 | 42814            | 0.1100                   |                          |                          |                             | 0.003<                    | 8.40 | 0.0430                   |                          | 0.073                                |                             |
| 870323         | 0800 | 42815            | 0.0925                   |                          |                          |                             | 0.097                     | 8.35 | 0.0360                   |                          | 0.063                                |                             |
| 870326         |      | 44409            | 0.0190                   |                          |                          |                             | 0.003<                    | 8.33 | 0.0235                   |                          | 0.057                                |                             |
| 870327         | 1230 | 42816            | 0.0190                   |                          |                          |                             | 0.054                     | 8.38 | 0.0245                   |                          | 0.062                                |                             |
| 870401         | 1230 | 42817            | 0.0855                   |                          |                          |                             | 0.087                     | 8.25 | 0.0560                   |                          | 0.123                                |                             |

( C O N T D )

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98 U T M: 17 0433800.0 4782350.0 4 REGION: 01 DISTANCE: 12.069

| *INTERIM TEST-NAME:  |      | NN02FR            | NN02UR            | NN03UR            | NNTKUR<br>K'DAHL N | PBUT             | PH   | PP04FR          | PP04UR          | PPUT                 | PSAMF<br>PSEUDOMN |
|----------------------|------|-------------------|-------------------|-------------------|--------------------|------------------|------|-----------------|-----------------|----------------------|-------------------|
|                      |      | NO2-N<br>FIL.REAC | NO2-N<br>UNF.REAC | NO3-N<br>UNF.REAC | TOTAL<br>UNF.REAC  | LEAD<br>UNF.TOT. |      | P04<br>FIL.REAC | P04<br>UNF.REAC | PHOSPHOR<br>UNF.TOT. | AERUG.<br>HF      |
| SAMPLE<br>DATE       | HOUR | MG/L<br>AS N      | MG/L<br>AS N      | MG/L<br>AS N      | MG/L<br>AS N       | MG/L<br>AS PB    | PH   | MG/L<br>AS P    | MG/L<br>AS P    | MG/L<br>AS P         | CNT<br>/100ML     |
| YYMMDD               | LMT  | SAMPLE<br>NUMBER  |                   |                   |                    |                  |      |                 |                 |                      |                   |
| 870408               | 1230 | 42818             | 0.0360            |                   |                    | 0.083            | 8.42 | 0.0190          |                 | 0.065                |                   |
| 870412               | 1930 | 42819             | 0.1330            |                   |                    | 0.140            | 8.31 | 0.0750          |                 | 0.170                |                   |
| 870413               | 1315 | 36849             |                   | 0.080             | 6.200              | 0.025<           | 8.08 |                 | 0.060           | 0.355                | 4                 |
| 870420               | 0830 | 42920             | 0.0280            |                   |                    | 0.130            | 8.32 | 0.0090          |                 | 0.046                |                   |
| 870426               | 1100 | 42821             | 0.0195            |                   |                    | 0.016            | 8.33 | 0.0035          |                 | 0.039                |                   |
| 870428               | 1230 | 42822             | 0.0280            |                   |                    | 0.310            | 8.34 | 0.0060          |                 | 0.041                |                   |
| 870505               | 0830 | 42823             | 0.0335            |                   |                    | 0.230            | 8.13 | 0.0360          |                 | 0.142                |                   |
| 870510               | 2030 | 42824             | 0.0195            |                   |                    | 0.230            | 8.25 | 0.0080          |                 | 0.047                |                   |
| 870511               | 1340 | 36862             |                   | 0.070             | 3.000              | 0.003<           | 8.11 |                 | 0.010           | 0.034                | 4<                |
| 870513               | 1300 | 42825             | 0.0180            |                   |                    | 0.016            | 8.13 | 0.0140          |                 | 0.166                |                   |
| 870518               | 1030 | 42826             | 0.0190            |                   |                    | 0.140            | 8.21 | 0.0070          |                 | 0.066                |                   |
| 870531               | 1600 | 42827             | 0.0475            |                   |                    | 0.300            | 8.36 | 0.0085          |                 | 0.096                |                   |
| 870606               | 1200 | 42828             | 0.1570            |                   |                    | 0.060            | 8.27 | 0.0595          |                 | 0.152                |                   |
| 870608               | 1310 | 36875             |                   | 0.080             | 6.700              | 0.003<           | 8.14 |                 | 0.033           | 0.122                | 4<                |
| 870622               | 0930 | 42829             | 0.0020<T          |                   |                    | 0.013            | 8.21 | 0.0185          |                 | 0.076                |                   |
| 870628               | 1230 | 42830             | 0.0440            |                   |                    | 0.018            | 8.13 | 0.0060          |                 | 0.070                |                   |
| 870712               | 0930 | 42831             | 0.0685            |                   |                    | 0.013            | 8.18 | 0.0105          |                 | 0.066                |                   |
| 870713               | 1315 | 36888             |                   | 0.040             | 1.400              | 0.003<           | 8.02 |                 | 0.003           | 0.095                | 8                 |
| 870719               | 1000 | 42832             | 0.0100            |                   |                    | 0.090            | 8.38 | 0.0130          |                 | 0.069                |                   |
| 870731               | 1700 | 42833             | 0.0115            |                   |                    | 0.200            | 8.30 | 0.0055          |                 | 0.102                |                   |
| 870809               | 1830 | 42834             | 0.0415            |                   |                    | NO DATA SM       | 8.10 | 0.0075          |                 | 0.160                |                   |
| 870810               | 1305 | 36901             |                   | 0.040             | 0.800              | 0.003<           | 8.18 |                 | 0.008           | 0.084                | 4<                |
| 870907               | 1700 | 42837             | 0.0065            |                   |                    | 0.140            | 8.20 | 0.0015<T        |                 | 0.035                |                   |
| 870914               | 1310 | 36914             |                   | 0.020             | 0.200              | 0.003<           | 8.03 |                 | 0.012           | 0.048                | 8                 |
| 870919               | 1500 | 42838             | 0.0010<W          |                   |                    | 0.130            | 8.24 | 0.0075          |                 | 0.058                |                   |
| 870925               | 1530 | 42839             | 0.0660            |                   |                    | 0.052            | 8.25 | 0.0135          |                 | 0.048                |                   |
| 871012               | 1130 | 42840             | 0.0650            |                   |                    | 0.035            | 8.27 | 0.0105          |                 | 0.053                |                   |
| 871014               | 1320 | 36927             |                   | 0.020             | 4.300              | 0.003<           | 8.03 |                 | 0.011           | 0.050                | 4<                |
| 871028               | 1700 | 42841             | 0.1220            |                   |                    | 0.180            | 8.11 | 0.0845          |                 | 0.210                |                   |
| 871109               | 1255 | 36940             |                   | 0.010<            | 8.400              | 0.003<           | 8.08 |                 | 0.010           | 0.096                | 12                |
| 871214               | 1300 | 36953             |                   | 0.020             | 11.100             | 0.003<           | 8.07 |                 | 0.022           | 0.108                | 4                 |
| MAXIMUM              |      | 0.1570            | 0.140             | 11.100            | 1.450              | 0.310            | 8.42 | 0.2450          | 0.109           | 1.21                 | 12                |
| ARITH MEAN           |      | 0.0494<A          | 0.052             | 4.675             | 0.917              | 0.086            | 8.20 | 0.0500<A        | 0.027           | 0.17                 | 7                 |
| GEOM MEAN            |      | 0.0330<A          |                   | 3.195             | 0.872              |                  | 8.20 | 0.0259<A        | 0.018           | 0.10                 |                   |
| MINIMUM              |      | 0.0010            | 0.010             | 0.200             | 0.480              | 0.007            | 7.86 | 0.0015          | 0.003           | 0.034                | 4                 |
| STD DEV (GEOM *)     |      | 0.0384<A          |                   | 3.171             | 0.288              |                  | 0.13 | 0.0581<A        | 0.030           | 0.24                 |                   |
| # SAMP IN STATISTICS |      | 41                | 10                | 12                | 12                 | 38               | 53   | 41              | 12              | 53                   | 5                 |
| % SAMP (EXCLUDED)    |      |                   | 16                |                   |                    | 25               |      |                 |                 |                      | 50                |

( C O N T D )



## 1987 WATER QUALITY DATA REGION

145

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

| LAT: 43 11 34.66     |      |            | LONG: 081 48 52.98 |          |         | U T M: 17 0433800.0 4782350.0 4 |          |          | REGION: 01 |          | DISTANCE: 12.069 |          |
|----------------------|------|------------|--------------------|----------|---------|---------------------------------|----------|----------|------------|----------|------------------|----------|
| *=INTERIM            |      | TEST-NAME: | P1ALDR             | P1BHCA   | P1BHCB  | P1BHCG                          | P1CHLA   | P1CHLG   | P1DIEL     | P1DMDT   | P1ENDR           | P1ENDS   |
| SAMPLE               |      |            |                    | BHC      | BHC     | BHC                             | CHLRDANE | CHLRDANE |            | DMDT     |                  | ENDOSULP |
| DATE                 | HR   | SAMPLE     | ALDRIN             | ALPHA    | BETA    | GAMMA                           | ALPHA    | GAMMA    | DIELDRIN   | MTHXYLLR | ENDRIN           | SULPHATE |
| YYMMDD               | LMT  | NUMBER     | NG/L               | NG/L     | NG/L    | NG/L                            | NG/L     | NG/L     | NG/L       | NG/L     | NG/L             | NG/L     |
| 870308               | 1800 | 42804      | 1<W                | 1<W      | 1<W     | 1<T                             | 2<W      | 2<W      | 2<W        | 5<W      | 4<W              | 4<W      |
| 870326               |      | 44409      | 1<W                | 1<W      | 1<W     | 1<W                             | 2<W      | 2<W      | 2<W        | 5<W      | 4<W              | 4<W      |
| MAXIMUM              |      |            | 1                  | 1        | 1       | 1                               | 2        | 2        | 2          | 5        | 4                | 4        |
| ARITH MEAN           |      |            | 1<A                | 1<A      | 1<A     | 1<A                             | 2<A      | 2<A      | 2<A        | 5<A      | 4<A              | 4<A      |
| GEOM MEAN            |      |            | 1<A                | 1<A      | 1<A     | 1<A                             | 2<A      | 2<A      | 2<A        | 5<A      | 4<A              | 4<A      |
| MINIMUM              |      |            | 1                  | 1        | 1       | 1                               | 2        | 2        | 2          | 5        | 4                | 4        |
| STD DEV (GEOM *)     |      |            | 0<A                | 0<A      | 0<A     | 0<A                             | 0<A      | 0<A      | 0<A        | 0<A      | 0<A              | 0<A      |
| # SAMP IN STATISTICS |      |            | 2                  | 2        | 2       | 2                               | 2        | 2        | 2          | 2        | 2                | 2        |
| % SAMP (EXCLUDED)    |      |            |                    |          |         |                                 |          |          |            |          |                  |          |
| *=INTERIM            |      | TEST-NAME: | P1END1             | P1END2   | P1HEPE  | P1HEPT                          | P1MIRX   | P1OCHL   | P1OPDT     | P1PCBT   | P1PPDD           | P1PPDE   |
| SAMPLE               |      |            | ENDOSULP           | ENDOSULP | HEPTA   |                                 |          |          |            | PCB      |                  |          |
| DATE                 | HR   | SAMPLE     | I                  | II       | CHLOR   |                                 |          |          |            | TOTAL    |                  |          |
| YYMMDD               | LMT  | NUMBER     | NG/L               | NG/L     | EPOXIDE | HEPACHOR                        | MIREX    | OXCHLANE | OP-DDT     |          | PP-DDD           | PP-DDE   |
|                      |      |            |                    |          | NG/L    | NG/L                            | NG/L     | NG/L     | NG/L       | NG/L     | NG/L             | NG/L     |
| 870308               | 1800 | 42804      | 2<W                | 4<W      | 1<W     | 1<W                             | 5<W      | 2<W      | 5<W        | 20<W     | 5<W              | 1<W      |
| 870326               |      | 44409      | 2<W                | 4<W      | 1<W     | 1<W                             | 5<W      | 2<W      | 5<W        | 20<W     | 5<W              | 1<W      |
| MAXIMUM              |      |            | 2                  | 4        | 1       | 1                               | 5        | 2        | 5          | 20       | 5                | 1        |
| ARITH MEAN           |      |            | 2<A                | 4<A      | 1<A     | 1<A                             | 5<A      | 2<A      | 5<A        | 20<A     | 5<A              | 1<A      |
| GEOM MEAN            |      |            | 2<A                | 4<A      | 1<A     | 1<A                             | 5<A      | 2<A      | 5<A        | 20<A     | 5<A              | 1<A      |
| MINIMUM              |      |            | 2                  | 4        | 1       | 1                               | 5        | 2        | 5          | 20       | 5                | 1        |
| STD DEV (GEOM *)     |      |            | 0<A                | 0<A      | 0<A     | 0<A                             | 0<A      | 0<A      | 0<A        | 0<A      | 0<A              | 0<A      |
| # SAMP IN STATISTICS |      |            | 2                  | 2        | 2       | 2                               | 2        | 2        | 2          | 2        | 2                | 2        |
| % SAMP (EXCLUDED)    |      |            |                    |          |         |                                 |          |          |            |          |                  |          |

( C O N T D )

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *INTERIM TEST-NAME: |           | P1PPDT        | P1TOX       | RSF           | RSP                   | TURB                 | X1HCB        | X2HCB                  | X2HCE    | X20CST   | X2PNCB                |                           |
|---------------------|-----------|---------------|-------------|---------------|-----------------------|----------------------|--------------|------------------------|----------|----------|-----------------------|---------------------------|
| SAMPLE DATE         | YMMDD LMT | SAMPLE NUMBER | PP-DDT NG/L | TOXAPHEN NG/L | RESIDUE FILTERED MG/L | RESIDUE PARTIC. MG/L | TURB'ITY FTU | HXCHLORO BUTADINE NG/L | HCN NG/L | HCE NG/L | OCTCHLOR STYRENE NG/L | PENTA CHLORO BENZENE NG/L |
| 870106              | 0930      | 42800         |             |               |                       | 13.1                 |              |                        |          |          |                       |                           |
| 870112              | 0930      | 42801         |             |               |                       | 11.0                 |              |                        |          |          |                       |                           |
| 870113              | 1120      | 36810         |             |               | 421.9                 | 8.1                  | 10.10        |                        |          |          |                       |                           |
| 870119              | 1000      | 42802         |             |               |                       | 20.6                 |              |                        |          |          |                       |                           |
| 870210              | 1305      | 36823         |             |               | 442.2                 | 9.8                  | 9.80         |                        |          |          |                       |                           |
| 870308              | 1000      | 42803         |             |               |                       | 795.0                |              |                        |          |          |                       |                           |
|                     | 1800      | 42804         | 5<W         | NO DATA NP    |                       | 661.0                |              | 1<W                    | 1<W      | 1<W      | 1<W                   | 1<W                       |
| 870309              | 1000      | 42805         |             |               |                       | 321.0                |              |                        |          |          |                       |                           |
|                     | 1210      | 36836         |             |               | 235.20                | 214.8                | 156.00       |                        |          |          |                       |                           |
|                     | 1600      | 42806         |             |               |                       | 371.0                |              |                        |          |          |                       |                           |
| 870310              | 1000      | 42807         |             |               |                       | 219.0                |              |                        |          |          |                       |                           |
|                     | 1500      | 42808         |             |               |                       | 175.0                |              |                        |          |          |                       |                           |
| 870311              | 1000      | 42809         |             |               |                       | 76.1                 |              |                        |          |          |                       |                           |
| 870312              | 1230      | 42810         |             |               |                       | 75.1                 |              |                        |          |          |                       |                           |
| 870314              | 1000      | 42811         |             |               |                       | 63.6                 |              |                        |          |          |                       |                           |
| 870316              | 1000      | 42812         |             |               |                       | 36.0                 |              |                        |          |          |                       |                           |
| 870318              | 0930      | 42813         |             |               |                       | 34.4                 |              |                        |          |          |                       |                           |
| 870321              | 1300      | 42814         |             |               |                       | 29.7                 |              |                        |          |          |                       |                           |
| 870323              | 0800      | 42815         |             |               |                       | 26.0                 |              |                        |          |          |                       |                           |
| 870326              |           | 44409         | 5<W         | NO DATA NP    |                       | 31.4                 |              | 1<W                    | 1<W      | 1<W      | 1<W                   | 1<W                       |
| 870327              | 1230      | 42816         |             |               |                       | 38.0                 |              |                        |          |          |                       |                           |
| 870401              | 1230      | 42817         |             |               |                       | 80.9                 |              |                        |          |          |                       |                           |
| 870408              | 1230      | 42818         |             |               |                       | 50.4                 |              |                        |          |          |                       |                           |
| 870412              | 1930      | 42819         |             |               |                       | 118.0                |              |                        |          |          |                       |                           |
| 870413              | 1315      | 36849         |             |               | 390.8                 | 299.2                | 325.00       |                        |          |          |                       |                           |
| 870420              | 0830      | 42920         |             |               |                       | 33.0                 |              |                        |          |          |                       |                           |
| 870426              | 1100      | 42821         |             |               |                       | 5.9                  |              |                        |          |          |                       |                           |
| 870428              | 1230      | 42822         |             |               |                       | 26.7                 |              |                        |          |          |                       |                           |
| 870505              | 0830      | 42823         |             |               |                       | 107.0                |              |                        |          |          |                       |                           |
| 870510              | 2030      | 42824         |             |               |                       | 31.4                 |              |                        |          |          |                       |                           |
| 870511              | 1340      | 36862         |             |               | 346.7                 | 17.3                 | 22.00        |                        |          |          |                       |                           |
| 870513              | 1300      | 42825         |             |               |                       | 111.0                |              |                        |          |          |                       |                           |
| 870518              | 1030      | 42826         |             |               |                       | 42.1                 |              |                        |          |          |                       |                           |
| 870531              | 1600      | 42827         |             |               |                       | 45.1                 |              |                        |          |          |                       |                           |
| 870606              | 1200      | 42828         |             |               |                       | 56.9                 |              |                        |          |          |                       |                           |
| 870608              | 1310      | 36875         |             |               | 303.1                 | 60.9                 | 17.00        |                        |          |          |                       |                           |
| 870622              | 0930      | 42829         |             |               |                       | 52.2                 |              |                        |          |          |                       |                           |
| 870628              | 1230      | 42830         |             |               |                       | 46.7                 |              |                        |          |          |                       |                           |
| 870712              | 0930      | 42831         |             |               |                       | 47.9                 |              |                        |          |          |                       |                           |
| 870713              | 1315      | 36888         |             |               | 298.3                 | 37.7                 | 49.00        |                        |          |          |                       |                           |
| 870719              | 1000      | 42832         |             |               |                       | 29.5                 |              |                        |          |          |                       |                           |

( C O N T D )

## 1987 WATER QUALITY DATA REGION

147

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

| *=INTERIM TEST-NAME: |           | P1PPDT        | P1TOX       | RSF           | RSP                   | TURB                 | X1HCB        | X2HCB                  | X2HCE    | X20CST   | X2PNCB                |                           |
|----------------------|-----------|---------------|-------------|---------------|-----------------------|----------------------|--------------|------------------------|----------|----------|-----------------------|---------------------------|
| SAMPLE DATE          | YMMDD LMT | SAMPLE NUMBER | PP-DDT NG/L | TOXAPHEN NG/L | RESIDUE FILTERED MG/L | RESIDUE PARTIC. MG/L | TURB'ITY FTU | HXCHLORO BUTADINE NG/L | HCB NG/L | HCE NG/L | OCTCHLOR STYRENE NG/L | PENTA CHLORO BENZENE NG/L |
| 870731               | 1700      | 42833         |             |               |                       | 44.5                 |              |                        |          |          |                       |                           |
| 870809               | 1830      | 42834         |             |               |                       | 48.3                 |              |                        |          |          |                       |                           |
| 870810               | 1305      | 36901         |             |               | 361.7                 | 28.4                 | 20.00        |                        |          |          |                       |                           |
| 870907               | 1700      | 42837         |             |               |                       | 32.4                 |              |                        |          |          |                       |                           |
| 870914               | 1310      | 36914         |             |               | 304.7                 | 23.3                 | 34.00        |                        |          |          |                       |                           |
| 870919               | 1500      | 42838         |             |               |                       | 36.9                 |              |                        |          |          |                       |                           |
| 870925               | 1530      | 42839         |             |               |                       | 25.7                 |              |                        |          |          |                       |                           |
| 871014               | 1320      | 36927         |             |               | 356.0                 | 18.0                 | 27.00        |                        |          |          |                       |                           |
| 871028               | 1700      | 42841         |             |               |                       | 92.1                 |              |                        |          |          |                       |                           |
| 871109               | 1255      | 36940         |             |               | 446.1                 | 21.9                 | 21.00        |                        |          |          |                       |                           |
| 871214               | 1300      | 36953         |             |               | 2784.1                | 29.9                 | 36.00        |                        |          |          |                       |                           |
| MAXIMUM              |           | 5             |             |               | 2784.1                | 795.0                | 325.00       | 1                      | 1        | 1        | 1                     | 1                         |
| ARITH MEAN           |           | 5<A           |             |               | 557.6                 | 94.8                 | 60.57        | 1<A                    | 1<A      | 1<A      | 1<A                   | 1<A                       |
| GEOM MEAN            |           | 5<A           |             |               | 415.1                 | 49.2                 | 32.27        | 1<A                    | 1<A      | 1<A      | 1<A                   | 1<A                       |
| MINIMUM              |           | 5             |             |               | 235.20                | 5.9                  | 9.80         | 1                      | 1        | 1        | 1                     | 1                         |
| STD DEV (GEOM *)     |           | 0<A           |             |               | 704.1                 | 151.3                | 92.11        | 0<A                    | 0<A      | 0<A      | 0<A                   | 0<A                       |
| # SAMP IN STATISTICS |           | 2             |             |               | 12                    | 52                   | 12           | 2                      | 2        | 2        | 2                     | 2                         |
| % SAMP (EXCLUDED)    |           |               |             |               |                       |                      |              |                        |          |          |                       |                           |

| *=INTERIM TEST-NAME: |           | X2T236<br>2,3,6 | X2T245<br>2,4,5          | X2T26A<br>2,6,A          | X2123<br>1,2,3           | X21234<br>1,2,3,4        | X21235<br>1,2,3,5        | X2124<br>1,2,4           | X21245<br>1,2,4,5        | X2135<br>1,3,5           | X3245<br>2,4,5          |
|----------------------|-----------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| SAMPLE DATE          | YMMDD LMT | SAMPLE NUMBER   | TRCHLORO<br>TOLUENE NG/L | TRCHLORO<br>TOLUENE NG/L | TRCHLORO<br>TOLUENE NG/L | TECHLORO<br>BENZENE NG/L | TECHLORO<br>BENZENE NG/L | TRCHLORO<br>BENZENE NG/L | TECHLORO<br>BENZENE NG/L | TRCHLORO<br>BENZENE NG/L | TRCHLORO<br>PHENOL NG/L |
| 870308               | 1800      | 42804           | 5<W                      | 5<W                      | 5<W                      | 5<W                      | 1<W                      | 1<W                      | 5<W                      | 1<W                      | 100<W                   |
| 870326               |           | 44409           | 5<W                      | 5<W                      | 5<W                      | 5<W                      | 1<W                      | 1<W                      | 5<W                      | 1<W                      | 100<W                   |
| MAXIMUM              |           | 5               | 5                        | 5                        | 5                        | 1                        | 1                        | 5                        | 1                        | 5                        | 100                     |
| ARITH MEAN           |           | 5<A             | 5<A                      | 5<A                      | 5<A                      | 1<A                      | 1<A                      | 5<A                      | 1<A                      | 5<A                      | 100<A                   |
| GEOM MEAN            |           | 5<A             | 5<A                      | 5<A                      | 5<A                      | 1<A                      | 1<A                      | 5<A                      | 1<A                      | 5<A                      | 100<A                   |
| MINIMUM              |           | 5               | 5                        | 5                        | 5                        | 1                        | 1                        | 5                        | 1                        | 5                        | 100                     |
| STD DEV (GEOM *)     |           | 0<A             | 0<A                      | 0<A                      | 0<A                      | 0<A                      | 0<A                      | 0<A                      | 0<A                      | 0<A                      | 1                       |
| # SAMP IN STATISTICS |           | 2               | 2                        | 2                        | 2                        | 2                        | 2                        | 2                        | 2                        | 2                        | 1                       |
| % SAMP (EXCLUDED)    |           |                 |                          |                          |                          |                          |                          |                          |                          |                          |                         |

( C O N T D )

## 1987 WATER QUALITY DATA REGION

148

B.O.W./ SITE: THE CUT AUSABLE RIVER  
SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
002  
0180

LAT: 43 11 34.66 LONG: 081 48 52.98 U T M: 17 0433800.0 4782350.0 4 REGION: 01 DISTANCE: 12.069

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
UNF.TOT.  
MG/L  
AS ZN

| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER |         |
|--------------------------|-------------|------------------|---------|
| 870113                   | 1120        | 36810            | 0.003<  |
| 870210                   | 1305        | 36823            | 0.062   |
| 870309                   | 1210        | 36836            | 0.030   |
| 870413                   | 1315        | 36849            | 0.025<  |
| 870511                   | 1340        | 36862            | 0.005   |
| 870608                   | 1310        | 36875            | 0.008   |
| 870713                   | 1315        | 36888            | 0.012   |
| 870810                   | 1305        | 36901            | 0.001<W |
| 870914                   | 1310        | 36914            | 0.004   |
| 871014                   | 1320        | 36927            | 0.005   |
| 871109                   | 1255        | 36940            | 0.004   |
| 871214                   | 1300        | 36953            | 0.006   |

MAXIMUM 0.062  
ARITH MEAN 0.014<A  
GEOM MEAN  
MINIMUM 0.001  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 10  
% SAMP (EXCLUDED) 16

B.O.W./ SITE: DECKER CREEK  
 SAMPLE POINT: NEAR BRICK YARD, THEDFORD  
 STATION TYPE: RIVER

STATION ID: 08-0022-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 36.86 LONG: 081 51 19.48 U T M: 17 0430475.0 4780600.0 4 REGION: 01 DISTANCE: 10.300

| *=INTERIM            |        | TEST-NAME: | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CRUT     | CUUT     | DO        |
|----------------------|--------|------------|--------|--------|----------|----------|----------|----------|----------|----------|----------|-----------|
|                      |        |            |        |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | CHROMIUM | COPPER   | DISSOLVED |
| SAMPLE               | DATE   | DATE       | DATE   | DATE   | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | UNF.TOT. | OXYGEN    |
| DATE                 | DATE   | DATE       | DATE   | DATE   | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MG/L      |
| YYMMDD               | YYMMDD | YYMMDD     | YYMMDD | YYMMDD | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CR    | AS CU    | AS O      |
| 870113               | 1100   | 36809      | 0.30   | 0101   | 334.0    | 0.95     |          | 90.000   | 1040.0   |          | 0.032    | 16.0      |
| 870210               | 1240   | 36822      | 0.30   | 0101   | 303.0    | 1.06     |          | 80.500   | 960.0    |          | 0.001    | 14.5      |
| 870309               | 1120   | 36835      | 0.30   | 0101   | 257.0    | 9.82     | 43.500   |          | 765.0    |          |          | 10.0      |
| 870413               | 1250   | 36848      | 0.30   | 0101   | 185.0    | 1.83     |          | 24.500   | 605.0    |          | 0.006    | 11.0      |
| 870511               | 1310   | 36861      | 0.30   | 0101   | 240.0    | 3.34     |          | 54.000   | 735.0    |          | 0.003    | 10.0      |
| 870608               | 1240   | 36874      | 0.30   | 0101   | 265.0    | 7.24     |          | 85.000   | 880.0    | 0.005<   | 0.003<   | 7.0       |
| 870713               | 1255   | 36887      | 0.30   | 0101   | 228.0    | 4.22     |          | 56.000   | 740.0    |          | 0.005    | 4.0       |
| 870810               | 1240   | 36900      | 0.30   | 0101   | 204.0    | 6.72     |          | 122.000  | 900.0    |          | 0.006    | 7.0       |
| 870914               | 1250   | 36913      | 0.30   | 0101   |          | 4.66     | 110.000  |          | 950.0    |          | 0.005    | 7.0       |
| 871014               | 1255   | 36926      | 0.30   | 0101   | 259.9    | 2.13     | 84.150   |          | 940.0    |          | 0.001<   | 12.5      |
| 871109               | 1230   | 36939      | 0.30   | 0101   | 242.2    | 2.12     | 68.700   |          | 810.0    |          | 0.007    | 13.5      |
| 871214               | 1240   | 36952      | 0.30   | 0101   | 264.8    | 1.17     | 47.510   |          | 735.0    |          | 0.008    | 13.5      |
| MAXIMUM              |        |            | 0.30   |        | 334.0    | 9.82     | 110.000  | 122.000  | 1040.0   |          | 0.032    | 16.0      |
| ARITH MEAN           |        |            | 0.30   |        | 253.0    | 3.77     | 70.772   | 73.143   | 838.3    |          | 0.008    | 10.5      |
| GEOM MEAN            |        |            |        |        | 249.9    | 2.86     | 66.640   | 66.190   | 829.3    |          |          | 9.8       |
| MINIMUM              |        |            | 0.30   |        | 185.0    | 0.95     | 43.500   | 24.500   | 605.0    |          | 0.001    | 4.0       |
| STD DEV (GEOM *)     |        |            |        |        | 41.6     | 2.86     | 27.418   | 31.338   | 126.3    |          |          | 3.7       |
| # SAMP IN STATISTICS |        |            | 12     |        | 11       | 12       | 5        | 7        | 12       |          | 9        | 12        |
| % SAMP (EXCLUDED)    |        |            |        |        |          |          |          |          |          |          | 18       |           |

| *=INTERIM |        | TEST-NAME: | FCMF     | FSMF     | FWSTRC | FWTEMP | NIUT     | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     |
|-----------|--------|------------|----------|----------|--------|--------|----------|----------|----------|----------|----------|----------|
|           |        |            | FECAL    | FECAL    |        |        | NICKEL   | NH3-N    |          |          | K'DAHL N | LEAD     |
| SAMPLE    | DATE   | DATE       | COLIFORM | STREPCUS | STREAM | WATER  | UNF.TOT. | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |
| DATE      | DATE   | DATE       | CNT      | CNT      | COND.  | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |
| YYMMDD    | YYMMDD | YYMMDD     | /100ML   | /100ML   |        | DEG.C  | AS NI    | AS N     | AS N     | AS N     | AS N     | AS PB    |
| 870113    | 1100   | 36809      | 244      | 210      | 6      | 1.0    |          | 0.060    | 0.010    | 2.200    | 0.600    | 0.003<   |
| 870210    | 1240   | 36822      |          |          | 6      | 0.5    |          | 0.190    | 0.010<   | 2.200    | 0.780    | 0.004    |
| 870309    | 1120   | 36835      |          |          | 6      | 0.5    |          | 0.150    | 0.040    | 3.700    | 1.200    |          |
| 870413    | 1250   | 36848      | 190      | 1200     | 6      | 11.0   |          | 0.005    | 0.120    | 8.300    | 1.300    | 0.003<   |
| 870511    | 1310   | 36861      | 60AID    | 180      | 6      | 21.0   |          | 0.010    | 0.170    | 1.700    | 1.030    | 0.003<   |
| 870608    | 1240   | 36874      | 1390     | 1500>    | 6      | 19.5   | 0.015<   | 0.785    | 0.450    | 2.400    | 2.420    | 0.030<   |
| 870713    | 1255   | 36887      | 570      | 530      | 6      | 25.0   |          | 0.140    | 0.200    | 4.200    | 2.140    | 0.003<   |
| 870810    | 1240   | 36900      | 1500     | 6100     | 6      | 19.0   |          | 0.320    | 0.170    | 2.700    | 2.060    | 0.003<   |
| 870914    | 1250   | 36913      | 520      | 600AID   | 5      | 17.0   |          | 0.025    | 0.040    | 0.700    | 1.440    | 0.003<   |
| 871014    | 1255   | 36926      | 970      | 60AID    | 6      | 9.0    |          | 0.015    | 0.080    | 5.700    | 1.320    | 0.003<   |
| 871109    | 1230   | 36939      | 1500>    | 600>     | 6      | 7.0    |          | 0.033    | 0.010    | 4.900    | 1.060    | 0.003<   |
| 871214    | 1240   | 36952      | 100      | 220      | 6      | 4.0    |          | 0.040    | 0.040    | 4.200    | 1.100    | 0.003<   |

( C O N T D )

B.O.W./ SITE: DECKER CREEK  
 SAMPLE POINT: NEAR BRICK YARD, THEDFORD  
 STATION TYPE: RIVER

STATION ID: 08-0022-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 36.86 LONG: 081 51 19.48 U T M: 17 0430475.0 4780600.0 4 REGION: 01 DISTANCE: 10.300

| *=INTERIM TEST-NAME:     |             | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|--------------------------|-------------|--|--|---------------------------|----------------------------------|---|--|---|---|---|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |  |                           |                                  |   |  |   |   |   |   |
|                          |             | MAXIMUM  | 1500   | 6100                      | 25.0                             |   | 0.785  | 0.450                                       | 8.300                                       | 2.420   | 0.004                                     |
|                          |             | ARITH MEAN                                       | 616  | 1138                      | 11.2                             |   | 0.148  | 0.121                                       | 3.575                                       | 1.371   | 0.004                                     |
|                          |             | GEOM MEAN  |  |                           | 6.0                              |   | 0.058  |   | 3.015                                       | 1.271   |   |
|                          |             | MINIMUM  | 60   | 60                        | 0.5                              |   | 0.005  | 0.010                                       | 0.700                                       | 0.600   | 0.004                                     |
|                          |             | STD DEV (GEOM *)                                 |  |                           | 8.8                              |   | 0.222  |   | 2.069                                       | 0.559   |   |
|                          |             | # SAMP IN STATISTICS                             | 9  | 8                         | 12                               |   | 12   | 11  | 12  | 12  | 1   |
|                          |             | % SAMP (EXCLUDED)                                | 10   | 20                        |                                  |   |  | 8   |   |   | 90  |

| *=INTERIM TEST-NAME:     |             | PH                   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|----------------------|---|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | PH  |  |  |                                   |                         |   |
| 870113                   | 1100        | 36809                | 8.17                                      | 0.029  | 0.060  | 4                                 | 21.9                    | 19.00                                     |
| 870210                   | 1240        | 36822                | 8.06                                      | 0.040  | 0.086  |                                   | 12.1                    | 13.90                                     |
| 870309                   | 1120        | 36835                | 7.60                                      | 0.020  | 0.115  |                                   | 35.0                    | 24.00                                     |
| 870413                   | 1250        | 36848                | 8.02                                      | 0.115  | 0.240  | 4                                 | 43.8                    | 75.00                                     |
| 870511                   | 1310        | 36861                | 8.23                                      | 0.042  | 0.103  | 4<                                | 9.8                     | 10.10                                     |
| 870608                   | 1240        | 36874                | 8.00                                      | 0.116  | 0.390  | 4<                                | 16.7                    | 18.10                                     |
| 870713                   | 1255        | 36887                | 7.84                                      | 0.255  | 0.348  | 4                                 | 16.7                    | 17.60                                     |
| 870810                   | 1240        | 36900                | 7.93                                      | 0.187  | 0.360  | 600>                              | 13.2                    | 18.90                                     |
| 870914                   | 1250        | 36913                | 7.92                                      | 0.533  | 0.560  | 10<                               | 18.9                    | 23.00                                     |
| 871014                   | 1255        | 36926                | 7.93                                      | 0.110  | 0.172  | 12                                | 5.9                     | 11.80                                     |
| 871109                   | 1230        | 36939                | 8.09                                      | 0.048  | 0.132  | 32C                               | 28.5                    | 23.00                                     |
| 871214                   | 1240        | 36952                | 7.97                                      | 0.033  | 0.185  | 4<                                | 44.3                    | 47.00                                     |
|                          |             | MAXIMUM              | 8.23                                      | 0.533  | 0.560  | 32                                | 44.3                    | 75.00                                     |
|                          |             | ARITH MEAN           | 7.98                                      | 0.127  | 0.229  | 11                                | 22.2                    | 25.12                                     |
|                          |             | GEOM MEAN            | 7.98                                      | 0.079  | 0.186  |                                   | 18.9                    | 21.25                                     |
|                          |             | MINIMUM              | 7.60                                      | 0.020  | 0.060  | 4                                 | 5.9                     | 10.10                                     |
|                          |             | STD DEV (GEOM *)     | 0.16                                      | 0.147  | 0.154  |                                   | 12.9                    | 18.31                                     |
|                          |             | # SAMP IN STATISTICS | 12  | 12   | 12   | 5                                 | 12                      | 12  |
|                          |             | % SAMP (EXCLUDED)    |   |  |  | 50                                |                         | 9   |

B.O.W./ SITE: HENSALL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 2, WEST OF HENSALL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF105

STATION ID: 08-0022-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 25 40.39 LONG: 081 31 22.44

U T M: 17 0457675.0 4808250.0 4

REGION: 01

DISTANCE: 139.204

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |          |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |          |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |          |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                      |      |          |        | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                      |      |          |        | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| SAMPLE               | DATE | DATE     | DEPTH  | PROJECT  |          |          |          |          |          |          |          |
| DATE                 | HR   | HR       | HR     | SUB-PROJ |          |          |          |          |          |          |          |
| YYMMDD               | LMT  | YYMMDD   | M      | CODE     |          |          |          |          |          |          |          |
| 870113               | 0910 | 36805    | 0.30   | 0101     | 281.0    | 0.66     |          | 24.500   | 665.0    | 0.002    | 28       |
| 870210               | 1020 | 36818    | 0.30   | 0101     | 292.0    | 1.69     |          | 30.000   | 715.0    | 0.001    |          |
| 870309               | 0955 | 36831    | 0.30   | 0101     | 200.0    | 1.45     | 11.500   | 493.0    |          | 6.5      |          |
| 870413               | 1025 | 36844    | 0.30   | 0101     | 251.0    | 1.30     |          | 15.500   | 645.0    | 0.002    | 504      |
| 870511               | 1125 | 36857    | 0.30   | 0101     | 209.0    | 1.04     |          | 18.000   | 530.0    | 0.001    | 10AID    |
| 870608               | 1055 | 36870    | 0.30   | 0101     | 241.0    | 1.78     |          | 18.000   | 570.0    | 0.002    | 600>     |
| 870713               | 1100 | 36883    | 0.30   | 0101     | 247.0    | 0.40     |          | 19.000   | 590.0    | 0.004    | 304      |
| 870810               | 1050 | 36896    | 0.30   | 0101     | 212.0    | 0.83     |          | 29.000   | 540.0    | 0.004    | 580      |
| 870914               | 1100 | 36909    | 0.30   | 0101     |          | 0.65     | 23.500   | 580.0    | 0.002    | 10.5     | 76       |
| 871014               | 1115 | 36922    | 0.30   | 0101     | 260.0    | 0.50     | 32.220   | 675.0    | 0.003    | 15.0     | 32       |
| 871109               | 1055 | 36935    | 0.30   | 0101     | 199.0    | 0.61     | 26.470   | 605.0    | 0.003    | 12.0     | 600>     |
| 871214               | 1050 | 36948    | 0.30   | 0101     | 233.6    | 0.51     | 22.430   | 595.0    | 0.005    | 14.0     | 90AID    |
| MAXIMUM              |      | 0.30     |        |          | 292.0    | 1.78     | 32.220   | 715.0    | 0.005    | 15.0     | 580      |
| ARITH MEAN           |      | 0.30     |        |          | 238.7    | 0.95     | 23.224   | 600.2    | 0.003    | 12.7     | 203      |
| GEOM MEAN            |      |          |        |          | 236.8    | 0.84     | 22.014   | 597.0    | 0.002    | 12.4     |          |
| MINIMUM              |      | 0.30     |        |          | 199.0    | 0.40     | 11.500   | 493.0    | 0.001    | 6.5      | 10       |
| STD DEV (GEOM *)     |      |          |        |          | 31.6     | 0.49     | 7.577    | 65.0     | 0.001    | 2.5      |          |
| # SAMP IN STATISTICS |      | 12       |        |          | 11       | 12       | 5        | 12       | 11       | 11       | 8        |
| % SAMP (EXCLUDED)    |      |          |        |          |          |          |          |          |          |          | 20       |
| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      | FECAL    |        |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      | STREPCUS |        |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
|                      |      | MF       |        |          | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
|                      |      | CNT      |        |          | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |
|                      |      | /100ML   |        |          | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |
| SAMPLE               | DATE | DATE     | COND.  | WATER    |          |          |          |          |          |          |          |
| DATE                 | HR   | HR       | COND.  | TEMP     |          |          |          |          |          |          |          |
| YYMMDD               | LMT  | YYMMDD   | COND.  | DEG.C    |          |          |          |          |          |          |          |
| 870113               | 0910 | 36805    | 16     | 6        | 1.5      | 0.170    | 0.030    | 5.400    | 0.003    | 8.18     | 0.019    |
| 870210               | 1020 | 36818    |        | 4        | 1.0      | 0.360    | 0.030    | 5.200    | 0.005    | 7.84     | 0.031    |
| 870309               | 0955 | 36831    |        | 6        | 1.0      | 0.075    | 0.070    | 7.200    |          | 7.90     | 0.100    |
| 870413               | 1025 | 36844    | 156    | 6        | 7.0      | 0.005    | 0.090    | 7.600    | 0.003<   | 8.15     | 0.033    |
| 870511               | 1125 | 36857    | 10AID  | 8        | 18.0     | 0.005    | 0.130    | 4.000    | 0.003<   | 8.20     | 0.012    |
| 870608               | 1055 | 36870    | 600>   | 9 8      | 19.5     | 0.020    | 0.050    | 3.000    | 0.003<   | 8.36     | 0.016    |
| 870713               | 1100 | 36883    | 264    | 8        | 24.5     | 0.035    | 0.020    | 3.300    | 0.003<   | 8.35     | 0.026    |
| 870810               | 1050 | 36896    | 1310   | 8        | 19.0     | 0.010    | 0.030    | 3.300    | 0.003<   | 8.50     | 0.005    |
| 870914               | 1100 | 36909    | 148    | 8        | 16.0     | 0.005<   | 0.020    | 1.800    | 0.003<   | 8.13     | 0.018    |
| 871014               | 1115 | 36922    | 44     | 8        | 7.0      | 0.005<   | 0.010<   | 4.000    | 0.003<   | 8.07     | 0.019    |
| 871109               | 1055 | 36935    | 600>   | 3        | 7.0      | 0.005<   | 0.010<   | 14.800   | 0.003<   | 7.99     | 0.059    |
| 871214               | 1050 | 36948    | 90AID  | 6        | 3.5      | 0.035    | 0.010    | 12.900   | 0.003<   | 8.07     | 0.001<   |

( C O N T D )

B.O.W./ SITE: HENSALL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 2, WEST OF HENSALL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF105

STATION ID: 08-0022-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 25 40.39 LONG: 081 31 22.44 U T M: 17 0457675.0 4808250.0 4 REGION: 01 DISTANCE: 139.204

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|------|---|
| MAXIMUM              |  | 1310   |                           | 24.5                             | 0.360  | 0.130                                       | 14.800                                      | 0.800   | 0.005                                     | 8.50 | 0.100                                     |
| ARITH MEAN           |  | 255  |                           | 10.4                             | 0.079  | 0.048                                       | 6.042                                       | 0.587   | 0.004                                     | 8.14 | 0.031                                     |
| GEOM MEAN            |  |  |                           | 6.4                              |  |   | 5.051                                       | 0.577   |   | 8.14 |   |
| MINIMUM              |  | 10   |                           | 1.0                              | 0.005  | 0.010                                       | 1.800                                       | 0.410   | 0.003                                     | 7.84 | 0.005                                     |
| STD DEV (GEOM *)     |  |  |                           | 8.4                              |  |   | 4.037                                       | 0.112   |   | 0.19 |   |
| # SAMP IN STATISTICS |  | 8  |                           | 12                               | 9  | 10  | 12  | 12  | 2   | 12   | 11  |
| % SAMP (EXCLUDED)    |  | 20   |                           |                                  | 25   | 16  |   |   | 81  |      | 8   |

| *=INTERIM TEST-NAME: |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|--|--|-----------------------------------|-------------------------|---|
| 870113               | 0910 | 36805  | 0.032  | 4<                                | 5.0<                    | 2.10                                      |
| 870210               | 1020 | 36818  | 0.065  |                                   | 14.5                    | 10.40                                     |
| 870309               | 0955 | 36831  | 0.134  |                                   | 8.7                     | 12.20                                     |
| 870413               | 1025 | 36844  | 0.083  | 4                                 | 5.0<                    | 5.70                                      |
| 870511               | 1125 | 36857  | 0.024  | 24                                | 5.0<                    | 1.34                                      |
| 870608               | 1055 | 36870  | 0.059  | 4<                                | 5.0<                    | 2.20                                      |
| 870713               | 1100 | 36883  | 0.052  | 36                                | 5.0<                    | 2.20                                      |
| 870810               | 1050 | 36896  | 0.034  | 516                               | 5.0<                    | 0.83                                      |
| 870914               | 1100 | 36909  | 0.048  | 4                                 | 5.0<                    | 2.60                                      |
| 871014               | 1115 | 36922  | 0.036  | 4<                                | 5.0<                    | 1.05                                      |
| 871109               | 1055 | 36935  | 0.109  | 56                                | 8.6                     | 6.00                                      |
| 871214               | 1050 | 36948  | 0.033  | 4<                                | 5.0<                    | 1.69                                      |
| MAXIMUM              |      | 0.134  | 516  | 14.5                              | 12.20                   | 0.029                                     |
| ARITH MEAN           |      | 0.059  | 107  | 10.6                              | 4.03                    | 0.008                                     |
| GEOM MEAN            |      | 0.052  |  |                                   | 2.79                    |   |
| MINIMUM              |      | 0.024  | 4  | 8.6                               | 0.83                    | 0.002                                     |
| STD DEV (GEOM *)     |      | 0.034  |  |                                   | 3.79                    |   |
| # SAMP IN STATISTICS |      | 12   | 6  | 3                                 | 12                      | 10  |
| % SAMP (EXCLUDED)    |      |  | 40   | 75                                |                         | 9   |



## 153

STORET CODE: 02  
002  
0180

**DISTANCE: 109.915**

|                      |      |       |      |        |        |       |         |      |      |
|----------------------|------|-------|------|--------|--------|-------|---------|------|------|
| MAXIMUM              | 0.30 | 270.0 | 9.52 | 33.890 | 25.000 | 655.0 | 0.005   | 19.0 | 3500 |
| ARITH MEAN           | 0.30 | 202.6 | 2.36 | 22.522 | 22.333 | 516.9 | 0.003<A | 12.7 | 663  |
| GEOM MEAN            |      | 199.8 | 1.53 | 21.193 | 22.199 | 508.1 |         | 12.2 |      |
| MINIMUM              | 0.30 | 162.0 | 0.33 | 12.500 | 18.000 | 382.0 | 0.001   | 7.0  | 4    |
| STD DEV (GEOM *)     |      | 36.3  | 2.68 | 8.615  | 2.601  | 98.6  |         | 3.6  |      |
| # SAMP IN STATISTICS | 11   | 10    | 11   | 5      | 6      | 11    | 6       | 10   | 8    |
| % SAMP (EXCLUDED)    |      |       |      |        |        |       | 45      |      | 20   |

| *INTERIM |      | TEST-NAME: | FEUT     | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   |
|----------|------|------------|----------|----------|--------|--------|----------|----------|----------|----------|----------|------|
|          |      |            | IRON     | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |
| SAMPLE   |      |            | UNF.TOT. | STREPCUS |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |      |
| DATE     | HOUR | SAMPLE     | MG/L     | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
| YYMMDD   | LMT  | NUMBER     | AS FE    | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
|          |      |            |          | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| 870113   | 1220 | 36812      | 0.071    | 4<       | 6      | 2.0    | 0.025    | 0.010    | 5.700    | 0.420    | 0.030<   | 8.29 |
| 870309   | 1340 | 36838      | 1.000    |          | 6      | 1.0    | 0.035    | 0.130    | 6.600    | 0.980    | 0.017    | 7.77 |
| 870413   | 1410 | 36851      | 0.400    | 128      | 6      | 10.0   | 0.020    | 0.140    | 6.500    | 0.810    | 0.025<   | 8.22 |
| 870511   | 1440 | 36864      | 0.140    | 50AID    | 8      | 22.5   | 0.015    | 0.170    | 2.800    | 0.630    | 0.003<   | 8.20 |
| 870608   | 1410 | 36877      | 0.320    | 600>     | 6      | 22.5   | 0.045    | 0.090    | 9.300    | 0.830    | 0.030<   | 8.02 |
| 870713   | 1415 | 36890      | 0.680    | 360      | 6      | 27.5   | 0.005<   | 0.010    | 0.200    | 1.650    | 0.003<   | 7.81 |
| 870810   | 1400 | 36903      | 0.160    | 440      | 8      | 25.5   | 0.005    | 0.040    | 0.100    | 0.620    | 0.003<   | 8.58 |
| 870914   | 1420 | 36916      | 0.440    | 268      | 7      | 20.5   | 0.005<   | 0.010    | 0.100<   | 0.270    | 0.003<   | 8.60 |
| 871014   | 1440 | 36929      | 0.180    | 16       | 8      | 12.5   | 0.005<   | 0.010<   | 0.100<   | 0.370    | 0.003<   | 7.70 |
| 871109   | 1405 | 36942      | 0.550    | 1500>    | 3      | 7.5    | 0.010    | 0.010<   | 15.800   | 0.980    | 0.003<   | 7.99 |
| 871214   | 1400 | 36955      | 0.080    | 130      | 6      | 3.0    | 0.072    | 0.010<   | 14.500   | 0.500    | 0.003<   | 8.04 |

( C O N T D )

B.O.W./ SITE: LITTLE AUSABLE RIVER  
 SAMPLE POINT: AT BRIDGE, TWP LINE WEST OF LUCAN  
 STATION TYPE: RIVER

STATION ID: 08-0022-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 50.08 LONG: 081 26 52.37 U T M: 17 0463600.0 4780750.0 4 REGION: 01 DISTANCE: 109.915

| *=-INTERIM TEST-NAME: |      | FEUT             | FSMF<br>FECAL<br>STREPCUS | FWSTRC          | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT                              | PH   |
|-----------------------|------|------------------|---------------------------|-----------------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|-----------------------------------|------|
| SAMPLE<br>DATE        | HOUR | UNF.TOT.<br>MG/L | MF<br>CNT                 | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
| YYMMDD                | LMT  | NUMBER           | AS FE                     |                 |                        |                          |                          |                          |                             |                                   |      |
| MAXIMUM               |      | 1.000            | 440                       |                 | 27.5                   | 0.072                    | 0.170                    | 15.800                   | 1.650                       | 0.017                             | 8.60 |
| ARITH MEAN            |      | 0.366            | 199                       |                 | 14.0                   | 0.028                    | 0.075                    | 6.833                    | 0.733                       | 0.017                             | 8.11 |
| GEOM MEAN             |      | 0.267            |                           |                 | 9.2                    |                          |                          |                          | 0.650                       |                                   | 8.11 |
| MINIMUM               |      | 0.071            | 16                        |                 | 1.0                    | 0.005                    | 0.010                    | 0.100                    | 0.270                       | 0.017                             | 7.70 |
| STD DEV (GEOM *)      |      | 0.290            |                           |                 | 10.0                   |                          |                          |                          | 0.387                       |                                   | 0.30 |
| # SAMP IN STATISTICS  |      | 11               | 7                         |                 | 11                     | 8                        | 8                        | 9                        | 11                          | 1                                 | 11   |
| % SAMP (EXCLUDED)     |      |                  | 30                        |                 |                        | 27                       | 27                       | 18                       |                             | 90                                |      |

| *=-INTERIM TEST-NAME: |      | PHNOL                      | PP04UR<br>PO4            | PPUT<br>PHOSPHOR         | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|-----------------------|------|----------------------------|--------------------------|--------------------------|-----------------------------------|---------------------------|-------------------------|---|
| SAMPLE<br>DATE        | HOUR | UNF-REAC<br>UG/L<br>PHENOL | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P | CNT<br>/100ML                     | MG/L                      |                         |   |
| YYMMDD                | LMT  | NUMBER                     |                          |                          |                                   |                           |                         |   |
| 870113                | 1220 | 36812                      | 1.000<                   | 0.016                    | 0.026                             | 4<                        | 5.0<                    | 2.60                                      |
| 870309                | 1340 | 36838                      | 1.000<                   | 0.124                    | 0.216                             |                           | 39.3                    | 23.00                                     |
| 870413                | 1410 | 36851                      |                          | 0.053                    | 0.090                             | 4<                        | 9.4                     | 14.90                                     |
| 870511                | 1440 | 36864                      |                          | 0.022                    | 0.041                             | 4<                        | 5.0<                    | 3.00                                      |
| 870608                | 1410 | 36877                      | 1.000<                   | 0.015                    | 0.065                             | 4<                        | 10.8                    | 10.30                                     |
| 870713                | 1415 | 36890                      | 1.000                    | 0.020                    | 0.445                             | 4<                        | 26.9                    | 25.00                                     |
| 870810                | 1400 | 36903                      | 1.000<                   | 0.013                    | 0.062                             | 4<                        | 2.8                     | 2.40                                      |
| 870914                | 1420 | 36916                      | 1.000<                   | 0.030                    | 0.029                             | 4<                        | 7.3                     | 7.60                                      |
| 871014                | 1440 | 36929                      | 1.000<                   | 0.011                    | 0.043                             | 4<                        | 1.5                     | 2.20                                      |
| 871109                | 1405 | 36942                      | 1.000<                   | 0.070                    | 0.150                             | 140C                      | 19.9                    | 18.10                                     |
| 871214                | 1400 | 36955                      | 1.000<                   | 0.003                    | 0.045                             | 4<                        | 5.0<                    | 3.10                                      |
| MAXIMUM               |      | 1.000                      | 0.124                    | 0.445                    | 140                               | 39.3                      | 25.00                   | 0.043                                     |
| ARITH MEAN            |      | 1.000                      | 0.034                    | 0.110                    | 140                               | 14.7                      | 10.20                   | 0.011<A                                   |
| GEOM MEAN             |      |                            | 0.022                    | 0.073                    |                                   |                           | 6.85                    |   |
| MINIMUM               |      | 1.000                      | 0.003                    | 0.026                    | 140                               | 1.5                       | 2.20                    | 0.001                                     |
| STD DEV (GEOM *)      |      |                            | 0.036                    | 0.125                    |                                   |                           | 8.71                    |   |
| # SAMP IN STATISTICS  |      | 1                          | 11                       | 11                       | 1                                 | 8                         | 11                      | 8   |
| % SAMP (EXCLUDED)     |      | 88                         |                          |                          | 90                                | 27                        |                         | 27  |

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT TOWNLINE DNSTR.FROM CENTRALIA BASE  
 STATION TYPE: RIVER

STATION ID: 08-0022-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 15 50.65 LONG: 081 31 40.23

U T M: 17 0457160.0 4790060.0 4

REGION: 01

DISTANCE: 120.698

| *=INTERIM            |      | TEST-NAME: | FWSADP   | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |            |          |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |            |          |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |            |          |          | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                      |      |            |          |          | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| SAMPLE               | DATE | DATE       | DEPTH    | PROJECT  | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | HOUR | NUMBER     | M        | SUB-PROJ |          |          |          |          |          |          |          |          |
| LMT                  |      |            |          | CODE     |          |          |          |          |          |          |          |          |
| 870113               | 0950 | 36807      | 0.30     | 0101     | 279.0    | 1.23     |          | 26.500   | 670.0    | 0.032    | 13.0     | 92       |
| 870210               | 1100 | 36820      | 0.30     | 0101     | 284.0    | 1.10     |          | 22.000   | 670.0    | 0.002    | 9.5      |          |
| 870309               | 1025 | 36833      | 0.30     | 0101     | 153.0    | 2.42     | 10.000   |          | 392.0    |          |          |          |
| 870413               | 1110 | 36846      | 0.30     | 0101     | 239.0    | 2.21     |          | 19.500   | 630.0    | 0.004    | 12.5     | 336      |
| 870511               | 1205 | 36859      | 0.30     | 0101     | 229.0    | 0.88     |          | 19.000   | 575.0    | 0.002    | 8.0      | 70AID    |
| 870608               | 1140 | 36872      | 0.30     | 0101     | 244.0    | 1.26     |          | 28.000   | 630.0    | 0.004    | 6.0      | 196      |
| 870713               | 1145 | 36885      | 0.30     | 0101     | 174.0    | 2.41     |          | 32.000   | 498.0    | 0.004    | 7.0      | 320      |
| 870810               | 1130 | 36898      | 0.30     | 0101     | 182.0    | 2.53     |          | 23.500   | 472.0    | 0.004    | 8.0      | 610      |
| 870914               | 1145 | 36911      | 0.30     | 0101     |          | 1.64     | 32.500   |          | 605.0    | 0.004    | 6.5      | 100      |
| 871014               | 1155 | 36924      | 0.30     | 0101     | 213.3    | 1.48     | 25.990   |          | 585.0    | 0.002    | 10.0     | 24       |
| 871109               | 1135 | 36937      | 0.30     | 0101     | 218.1    | 1.36     | 38.570   |          | 675.0    | 0.005    | 12.5     | 1500>    |
| 871214               | 1130 | 36950      | 0.30     | 0101     | 221.2    | 0.72     | 32.070   |          | 625.0    | 0.006    | 12.5     | 150      |
| MAXIMUM              |      |            | 0.30     |          | 284.0    | 2.53     | 38.570   | 32.000   | 675.0    | 0.032    | 13.0     | 610      |
| ARITH MEAN           |      |            | 0.30     |          | 221.5    | 1.60     | 27.826   | 24.357   | 585.6    | 0.006    | 9.6      | 211      |
| GEOM MEAN            |      |            |          |          | 218.0    | 1.49     | 25.340   | 23.971   | 578.7    | 0.004    | 9.2      |          |
| MINIMUM              |      |            | 0.30     |          | 153.0    | 0.72     | 10.000   | 19.000   | 392.0    | 0.002    | 6.0      | 24       |
| STD DEV (GEOM *)     |      |            |          |          | 40.8     | 0.63     | 10.914   | 4.741    | 88.6     | 0.009    | 2.7      |          |
| # SAMP IN STATISTICS |      |            | 12       |          | 11       | 12       | 5        | 7        | 12       | 11       | 11       | 9        |
| % SAMP (EXCLUDED)    |      |            |          |          |          |          |          |          |          |          |          | 10       |
| *=INTERIM            |      | TEST-NAME: | FSMF     | FWSTRC   | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      |            | FECAL    |          |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      |            | STREPCUS |          |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
|                      |      |            | MF       |          | WATER    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
|                      |      |            | CNT      | STREAM   | TEMP     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |
|                      |      |            | /100ML   | COND.    | DEG.C    | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |
| SAMPLE               | DATE | DATE       |          |          |          |          |          |          |          |          |          |          |
| YYMMDD               | HOUR | NUMBER     |          |          |          |          |          |          |          |          |          |          |
| LMT                  |      |            |          |          |          |          |          |          |          |          |          |          |
| 870113               | 0950 | 36807      | 4        | 6        | 1.5      | 0.150    | 0.020    | 4.700    | 0.770    | 0.003<   | 8.18     | 0.025    |
| 870210               | 1100 | 36820      |          | 4        | 1.0      | 0.215    | 0.020    | 3.800    | 0.830    | 0.005    | 7.95     | 0.041    |
| 870309               | 1025 | 36833      |          | 3        | 1.0      | 0.095    | 0.100    | 5.500    | 0.780    |          | 7.81     | 0.095    |
| 870413               | 1110 | 36846      | 264      | 6        | 9.5      | 0.005<   | 0.130    | 5.400    | 0.790    | 0.003<   | 8.04     | 0.030    |
| 870511               | 1205 | 36859      | 10<      | 6        | 20.0     | 0.005    | 0.090    | 2.500    | 0.670    | 0.003<   | 8.03     | 0.035    |
| 870608               | 1140 | 36872      | 248      | 8        | 21.5     | 0.090    | 0.180    | 2.800    | 1.080    | 0.003<   | 7.94     | 0.051    |
| 870713               | 1145 | 36885      | 340      | 5 8      | 27.0     | 0.015    | 0.060    | 2.300    | 1.400    | 0.003<   | 7.94     | 0.048    |
| 870810               | 1130 | 36898      | 720      | 8 5      | 20.5     | 0.085    | 0.080    | 1.800    | 0.980    | 0.003<   | 7.95     | 0.031    |
| 870914               | 1145 | 36911      | 10<      | 5 8      | 18.5     | 0.065    | 0.030    | 0.300    | 0.760    | 0.003<   | 7.87     | 0.045    |
| 871014               | 1155 | 36924      | 32       | 6        | 9.5      | 0.005<   | 0.010<   | 0.500    | 0.660    | 0.003<   | 7.84     | 0.030    |
| 871109               | 1135 | 36937      | 1500>    | 3        | 7.0      | 0.009    | 0.010<   | 12.900   | 1.850    | 0.003<   | 7.93     | 0.066    |
| 871214               | 1130 | 36950      | 160      | 6        | 2.5      | 0.036    | 0.020    | 13.400   | 0.670    | 0.003<   | 7.99     | 0.009    |

( C O N T D )

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT TOWNLINE DNSTR.FROM CENTRALIA BASE  
 STATION TYPE: RIVER

STATION ID: 08-0022-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

| LAT: 43 15 50.65     |             | LONG: 081 31 40.23 |                                      | U T M: 17 0457160.0 4790060.0 4 |                          | REGION: 01                |                          | DISTANCE: 120.698           |                          |                           |                          |       |
|----------------------|-------------|--------------------|--------------------------------------|---------------------------------|--------------------------|---------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|--------------------------|-------|
| *=INTERIM TEST-NAME: |             | FECAL<br>STREPCUS  | FWSTRC                               | FWTEMP                          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N           | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PP04UR<br>PO4            |       |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER   | CNT<br>/100ML                        | STREAM<br>COND.                 | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N  | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | UNF.REAC<br>MG/L<br>AS P |       |
| MAXIMUM              |             | 720                |                                      |                                 | 27.0                     | 0.215                     | 0.180                    | 13.400                      | 1.850                    | 0.005                     | 8.18                     | 0.095 |
| ARITH MEAN           |             | 253                |                                      |                                 | 11.6                     | 0.076                     | 0.073                    | 4.658                       | 0.937                    | 0.005                     | 7.96                     | 0.042 |
| GEOM MEAN            |             |                    |                                      |                                 | 6.8                      |                           |                          | 2.929                       | 0.889                    |                           | 7.96                     | 0.037 |
| MINIMUM              |             | 4                  |                                      |                                 | 1.0                      | 0.005                     | 0.020                    | 0.300                       | 0.660                    | 0.005                     | 7.81                     | 0.009 |
| STD DEV (GEOM *)     |             |                    |                                      |                                 | 9.4                      |                           |                          | 4.311                       | 0.358                    |                           | 0.10                     | 0.022 |
| # SAMP IN STATISTICS |             | 7                  |                                      |                                 | 12                       | 10                        | 10                       | 12                          | 12                       | 1                         | 12                       | 12    |
| % SAMP (EXCLUDED)    |             | 30                 |                                      |                                 |                          | 16                        | 16                       |                             |                          | 90                        |                          |       |
| *=INTERIM TEST-NAME: |             | PPUT               | PSAMF<br>PSEUDOMN<br>AERUG.          | RSP                             | TURB                     | ZINC                      |                          |                             |                          |                           |                          |       |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER   | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RESIDUE<br>PARTIC.<br>MG/L      | TURB'ITY<br>FTU          | UNF.TOT.<br>MG/L<br>AS ZN |                          |                             |                          |                           |                          |       |
| 870113               | 0950        | 36807              | 0.048                                | 4<                              | 5.0<                     | 4.80                      | 0.001                    |                             |                          |                           |                          |       |
| 870210               | 1100        | 36820              | 0.062                                |                                 | 2.4                      | 4.60                      | 0.018                    |                             |                          |                           |                          |       |
| 870309               | 1025        | 36833              | 0.151                                |                                 | 15.5                     | 21.00                     |                          |                             |                          |                           |                          |       |
| 870413               | 1110        | 36846              | 0.072                                | 4<                              | 12.6                     | 11.40                     | 0.021                    |                             |                          |                           |                          |       |
| 870511               | 1205        | 36859              | 0.061                                | 24                              | 6.9                      | 8.00                      | 0.001<                   |                             |                          |                           |                          |       |
| 870608               | 1140        | 36872              | 0.122                                | 4<                              | 21.9                     | 16.50                     | 0.009                    |                             |                          |                           |                          |       |
| 870713               | 1145        | 36885              | 0.180                                | 4<                              | 30.2                     | 33.00                     | 0.016                    |                             |                          |                           |                          |       |
| 870810               | 1130        | 36898              | 0.138                                | 8                               | 21.8                     | 22.00                     | 0.010                    |                             |                          |                           |                          |       |
| 870914               | 1145        | 36911              | 0.128                                | 4<                              | 24.9                     | 24.00                     | 0.008                    |                             |                          |                           |                          |       |
| 871014               | 1155        | 36924              | 0.087                                | 4<                              | 6.0                      | 5.20                      | 0.003                    |                             |                          |                           |                          |       |
| 871109               | 1135        | 36937              | 0.280                                | 28C                             | 39.6                     | 32.00                     | 0.009                    |                             |                          |                           |                          |       |
| 871214               | 1130        | 36950              | 0.054                                | 4                               | 5.0<                     | 4.40                      | 0.003                    |                             |                          |                           |                          |       |
| MAXIMUM              |             | 0.280              | 28                                   | 39.6                            | 33.00                    | 0.021                     |                          |                             |                          |                           |                          |       |
| ARITH MEAN           |             | 0.115              | 16                                   | 18.2                            | 15.57                    | 0.010                     |                          |                             |                          |                           |                          |       |
| GEOM MEAN            |             | 0.100              |                                      |                                 | 12.00                    |                           |                          |                             |                          |                           |                          |       |
| MINIMUM              |             | 0.048              | 4                                    | 2.4                             | 4.40                     | 0.001                     |                          |                             |                          |                           |                          |       |
| STD DEV (GEOM *)     |             | 0.067              |                                      |                                 | 10.70                    |                           |                          |                             |                          |                           |                          |       |
| # SAMP IN STATISTICS |             | 12                 | 4                                    | 10                              | 12                       | 10                        |                          |                             |                          |                           |                          |       |
| % SAMP (EXCLUDED)    |             |                    | 60                                   | 16                              |                          | 9                         |                          |                             |                          |                           |                          |       |

B.O.W./ SITE: PARKHILL CREEK  
 SAMPLE POINT: RD.BETWEEN LOTS 15&16 WEST OF PARKHILL  
 STATION TYPE: RIVER

STATION ID: 08-0022-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 11 05.93 LONG: 081 43 46.93 U T M: 17 0440700.0 4781400.0 4 REGION: 01 DISTANCE: 19.955

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HR   | DEPTH  | SUB-PROJ | AS CACO3 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          |          |          |          |          |          |
| 870113               | 1140 | 36811  | 0101     | 280.0    | 0.81     |          | 21.500   | 665.0    | 0.003    | 10.0     | 44       |
| 870210               | 1320 | 36824  | 0101     | 281.0    | 0.50     |          | 23.500   | 685.0    | 0.001    | 14.0     |          |
| 870309               | 1235 | 36837  | 0101     | 153.0    | 3.54     | 11.500   |          | 395.0    | 0.005    | 10.0     |          |
| 870413               | 1335 | 36850  | 0101     | 203.0    | 1.51     |          | 20.500   | 560.0    | 0.004    | 12.0     | 270      |
| 870511               | 1400 | 36863  | 0101     | 268.0    | 2.34     |          | 19.000   | 625.0    | 0.003    | 10.0     | 90AID    |
| 870608               | 1330 | 36876  | 0101     | 256.0    | 2.00     |          | 23.500   | 605.0    | 0.004    | 8.0      | 2000     |
| 870713               | 1335 | 36889  | 0101     | 240.0    | 1.35     |          | 25.000   | 670.0    | 0.006    | 7.0      | 510      |
| 870810               | 1320 | 36902  | 0101     | 185.0    | 2.66     |          | 32.000   | 510.0    | 0.020<   | 8.5      | 2600     |
| 870914               | 1330 | 36915  | 0101     |          | 3.18     | 21.000   |          | 438.0    | 0.005    | 8.0      | 1100     |
| 871014               | 1350 | 36928  | 0101     | 276.9    | 0.71     | 46.350   |          | 810.0    | 0.001<   | 10.5     | 164      |
| 871109               | 1320 | 36941  | 0101     | 206.5    | 1.22     | 31.530   |          | 605.0    | 0.005    | 12.0     | 200      |
| 871214               | 1325 | 36954  | 0101     | 161.8    | 1.05     | 18.010   |          | 472.0    | 0.007    | 12.5     | 160      |
| MAXIMUM              |      | 0.30   |          | 281.0    | 3.54     | 46.350   | 32.000   | 810.0    | 0.007    | 14.0     | 2600     |
| ARITH MEAN           |      | 0.30   |          | 228.3    | 1.74     | 25.678   | 23.571   | 586.7    | 0.004    | 10.2     | 714      |
| GEOM MEAN            |      |        |          | 223.3    | 1.47     | 22.942   | 23.275   | 575.5    |          | 10.0     | 332      |
| MINIMUM              |      | 0.30   |          | 153.0    | 0.50     | 11.500   | 19.000   | 395.0    | 0.001    | 7.0      | 44       |
| STD DEV (GEOM *)     |      |        |          | 48.3     | 1.00     | 13.632   | 4.237    | 118.1    |          | 2.1      | 4*       |
| # SAMP IN STATISTICS |      | 12     |          | 11       | 12       | 5        | 7        | 12       | 10       | 12       | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 16       |          |          |

| *INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|---------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                     |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                     |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | PO4      |
|                     |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| SAMPLE              |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| DATE                | HR   | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD              | LMT  | NUMBER   |        |        |          |          |          |          |          |      |          |
| 870113              | 1140 | 36811    | 8      | 6      | 1.5      | 0.045    | 0.020    | 4.300    | 0.003<   | 8.06 | 0.035    |
| 870210              | 1320 | 36824    |        | 4      | 1.0      | 0.030    | 0.010<   | 5.200    | 0.004    | 8.07 | 0.036    |
| 870309              | 1235 | 36837    |        | 6      | 0.5      | 0.130    | 0.190    | 4.600    | 0.003<   | 7.84 | 0.152    |
| 870413              | 1335 | 36850    | 160    | 6      | 11.0     | 0.005<   | 0.100    | 6.700    | 0.003<   | 8.14 | 0.066    |
| 870511              | 1400 | 36863    | 60AID  | 8      | 21.5     | 0.005    | 0.030    | 2.600    | 0.003<   | 8.08 | 0.044    |
| 870608              | 1330 | 36876    | 1270   | 6      | 21.5     | 0.070    | 0.070    | 1.100    | 0.003<   | 8.08 | 0.061    |
| 870713              | 1335 | 36889    | 430    | 6      | 25.5     | 0.035    | 0.130    | 7.000    | 0.003<   | 8.02 | 0.103    |
| 870810              | 1320 | 36902    | 4700   | 6      | 20.0     | 0.035    | 0.030    | 0.500    | 0.060<   | 7.98 | 0.099    |
| 870914              | 1330 | 36915    | 810    | 5      | 19.5     | 0.101    | 0.040    | 0.300    | 0.003<   | 8.02 | 0.036    |
| 871014              | 1350 | 36928    | 196    | 6      | 9.0      | 0.005<   | 0.020    | 4.900    | 0.004    | 7.79 | 0.060    |
| 871109              | 1320 | 36941    | 190    | 6      | 7.5      | 0.029    | 0.010<   | 7.400    | 0.003<   | 8.06 | 0.059    |
| 871214              | 1325 | 36954    | 100    | 3      | 3.0      | 0.040    | 0.030    | 8.500    | 0.003<   | 8.01 | 0.153    |

( C O N T D )

B.O.W./ SITE: PARKHILL CREEK  
 SAMPLE POINT: RD.BETWEEN LOTS 15&16 WEST OF PARKHILL  
 STATION TYPE: RIVER

STATION ID: 08-0022-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 11 05.93 LONG: 081 43 46.93 U T M: 17 0440700.0 4781400.0 4 REGION: 01 DISTANCE: 19.955

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>N02-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>N03-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|

|                      |      |  |  |      |       |       |       |       |       |      |       |
|----------------------|------|--|--|------|-------|-------|-------|-------|-------|------|-------|
| MAXIMUM              | 4700 |  |  | 25.5 | 0.130 | 0.190 | 8.500 | 1.550 | 0.004 | 8.14 | 0.153 |
| ARITH MEAN           | 792  |  |  | 11.8 | 0.052 | 0.066 | 4.425 | 1.062 | 0.004 | 8.01 | 0.075 |
| GEOM MEAN            | 238  |  |  | 6.7  |       |       | 3.046 | 1.034 |       | 8.01 | 0.066 |
| MINIMUM              | 8    |  |  | 0.5  | 0.005 | 0.020 | 0.300 | 0.650 | 0.004 | 7.79 | 0.035 |
| STD DEV (GEOM *)     | 6*   |  |  | 9.3  |       |       | 2.779 | 0.248 |       | 0.10 | 0.042 |
| # SAMP IN STATISTICS | 10   |  |  | 12   | 10    | 10    | 12    | 12    | 2     | 12   | 12    |
| % SAMP (EXCLUDED)    |      |  |  |      | 16    | 16    |       |       | 83    |      |       |

| *=INTERIM TEST-NAME: |  | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|--|--|--|-----------------------------------|-------------------------|---|
|----------------------|--|--|--|-----------------------------------|-------------------------|---|

|        |      |       |       |    |      |        |        |
|--------|------|-------|-------|----|------|--------|--------|
| 870113 | 1140 | 36811 | 0.053 | 4< | 4.0  | 8.20   | 0.083  |
| 870210 | 1320 | 36824 | 0.062 |    | 7.1  | 10.10  | 0.011  |
| 870309 | 1235 | 36837 | 0.300 |    | 74.8 | 116.00 | 0.035  |
| 870413 | 1335 | 36850 | 0.136 | 4< | 23.4 | 45.00  | 0.026  |
| 870511 | 1400 | 36863 | 0.136 | 4< | 50.5 | 51.00  | 0.001< |
| 870608 | 1330 | 36876 | 0.152 | 4< | 32.8 | 41.00  | 0.011  |
| 870713 | 1335 | 36889 | 0.220 | 8  | 49.5 | 60.00  | 0.032  |
| 870810 | 1320 | 36902 | 0.182 | 44 | 38.0 | 53.00  | 0.020  |
| 870914 | 1330 | 36915 | 0.190 | 4< | 95.8 | 102.00 | 0.010  |
| 871014 | 1350 | 36928 | 0.100 | 4< | 6.8  | 13.00  | 0.002  |
| 871109 | 1320 | 36941 | 0.156 | 4< | 17.5 | 22.00  | 0.006  |
| 871214 | 1325 | 36954 | 0.180 | 4  | 20.1 | 52.00  | 0.008  |

|                      |       |    |      |        |       |
|----------------------|-------|----|------|--------|-------|
| MAXIMUM              | 0.300 | 44 | 95.8 | 116.00 | 0.083 |
| ARITH MEAN           | 0.156 | 19 | 35.0 | 47.77  | 0.022 |
| GEOM MEAN            | 0.141 |    | 23.9 | 35.75  |       |
| MINIMUM              | 0.053 | 4  | 4.0  | 8.20   | 0.002 |
| STD DEV (GEOM *)     | 0.068 |    | 28.5 | 34.00  |       |
| # SAMP IN STATISTICS | 12    | 3  | 12   | 12     | 11    |
| % SAMP (EXCLUDED)    |       | 70 |      |        | 8     |

## 159

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
002  
0180

DISTANCE: 0.805

| *=INTERIM      | TEST-NAME: | FSMF<br>FECAL<br>STREPCUS | FWSTRC    | FWTEMP          | NIUT                   | NNHTUR<br>NH3-N<br>TOTAL            | NNO2UR                   | NNO3UR                   | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT                     | PH                        |      |
|----------------|------------|---------------------------|-----------|-----------------|------------------------|-------------------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|------|
| SAMPLE<br>DATE | HR         | SAMPLE<br>CNT             | MF<br>CNT | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH   |
| YYMMDD         | LMT        | NUMBER                    | /100ML    |                 |                        |                                     |                          |                          |                             |                          |                           |      |
| 870113         | 1015       | 36808                     | 8         | 6               | 1.0                    | 0.015<                              | 0.030                    | 0.020                    | 4.700                       | 0.690                    | 0.030<                    | 8.18 |
| 870210         | 1130       | 36821                     |           | 4               | 1.0                    |                                     | 0.130                    | 0.010<                   | 4.900                       | 0.900                    | 0.006                     | 7.79 |
| 870309         | 1055       | 36834                     |           | 4               | 1.0                    | 0.004                               | 0.075                    | 0.150                    | 5.200                       | 1.100                    | 0.006                     | 7.79 |
| 870413         | 1140       | 36847                     | 1300      | 6               | 7.0                    | 0.003                               | 0.005                    | 0.140                    | 8.100                       | 1.350                    | 0.003<                    | 7.85 |
| 870511         | 1240       | 36860                     | 30AID     | 6               | 17.0                   | 0.003                               | 0.005                    | 0.060                    | 3.700                       | 1.500                    | 0.003<                    | 8.00 |
| 870608         | 1210       | 36873                     | 430       | 9 5             | 21.5                   | 0.004                               | 0.720                    | 0.260                    | 8.500                       | 2.120                    | 0.003<                    | 7.74 |
| 870713         | 1220       | 36886                     | 310       | 5               | 26.5                   | 0.015<                              | 0.050                    | 0.010<                   | 0.100                       | 1.360                    | 0.030<                    | 8.07 |
| 870810         | 1200       | 36899                     | 590       | 5               | 22.5                   | 0.005                               | 0.065                    | 0.020                    | 0.400                       | 1.040                    | 0.005                     | 8.06 |
| 870914         | 1215       | 36912                     | 50AID     | 5               | 20.0                   | 0.002                               | 0.050                    | 0.020                    | 0.100                       | 1.320                    | 0.004                     | 7.96 |
| 871014         | 1225       | 36925                     | 52        | 5               | 9.0                    | 0.003                               | 0.005                    | 0.040                    | 7.600                       | 1.220                    | 0.003<                    | 7.77 |
| 871109         | 1200       | 36938                     | 1500>     | 5               | 7.5                    | 0.003                               | 0.006                    | 0.010<                   | 8.800                       | 1.080                    | 0.003<                    | 7.91 |
| 871214         | 1205       | 36951                     | 150       | 6               | 2.5                    | 0.003                               | 0.027                    | 0.020                    | 11.300                      | 1.160                    | 0.003<                    | 7.93 |

( C O N T D )

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GRAND BEND  
 STATION TYPE: RIVER

STATION ID: 08-0022-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 18 40.75 LONG: 081 45 25.59 U T M: 17 0438600.0 4795450.0 4 REGION: 01 DISTANCE: 0.805

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|---------------------------|----------------------------------|-----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 1300   |                           | 26.5                             | 0.005                             | 0.720  | 0.260                                       | 11.300                                      | 2.120   | 0.006                                     | 8.18 |
| ARITH MEAN           |  | 324  |                           | 11.4                             | 0.003                             | 0.097  | 0.081                                       | 5.283                                       | 1.237   | 0.005                                     | 7.92 |
| GEOM MEAN            |  |  |                           | 6.4                              |                                   | 0.031  |   | 2.593                                       | 1.194   |   | 7.92 |
| MINIMUM              |  | 8  |                           | 1.0                              | 0.002                             | 0.005  | 0.020                                       | 0.100                                       | 0.690   | 0.004                                     | 7.74 |
| STD DEV (GEOM *)     |  |  |                           | 9.5                              |                                   | 0.200  |   | 3.727                                       | 0.355   |   | 0.14 |
| # SAMP IN STATISTICS |  | 9  |                           | 12                               | 9                                 | 12   | 9   | 12  | 12  | 4   | 12   |
| % SAMP (EXCLUDED)    |  | 10   |                           |                                  | 18                                |  | 25  |   |   | 66  |      |

| *=INTERIM TEST-NAME: |      | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|---|--|--|-----------------------------------|-------------------------|---|-------|
| 870113               | 1015 | 36808                                     | 0.034  | 0.078  | 4<                                | 4.7                     | 8.60                                      | 0.004 |
| 870210               | 1130 | 36821                                     | 0.044  | 0.056  |                                   | 9.5                     | 11.20                                     | 0.015 |
| 870309               | 1055 | 36834                                     | 0.106  | 0.210  |                                   | 80.8                    | 93.00                                     | 0.028 |
| 870413               | 1140 | 36847                                     | 0.069  | 0.195  | 16                                | 69.4                    | 85.00                                     | 0.010 |
| 870511               | 1240 | 36860                                     | 0.052  | 0.178  | 4<                                | 95.5                    | 94.00                                     | 0.013 |
| 870608               | 1210 | 36873                                     | 0.042  | 0.150  | 12                                | 56.4                    | 63.00                                     | 0.010 |
| 870713               | 1220 | 36886                                     | 0.016  | 0.122  | 4                                 | 23.2                    | 26.00                                     | 0.008 |
| 870810               | 1200 | 36899                                     | 0.018  | 0.106  | 132                               | 22.1                    | 27.00                                     | 0.001 |
| 870914               | 1215 | 36912                                     | 0.031  | 0.116  | 4<                                | 23.2                    | 26.00                                     | 0.005 |
| 871014               | 1225 | 36925                                     | 0.052  | 0.114  | 4<                                | 16.4                    | 22.00                                     | 0.006 |
| 871109               | 1200 | 36938                                     | 0.055  | 0.140  | 16                                | 31.1                    | 41.00                                     | 0.006 |
| 871214               | 1205 | 36951                                     | 0.063  | 0.132  | 4                                 | 17.5                    | 39.00                                     | 0.005 |
| MAXIMUM              |      | 0.106                                     | 0.210  | 132  | 95.5                              | 94.00                   | 0.028                                     |       |
| ARITH MEAN           |      | 0.048                                     | 0.133  | 31   | 37.5                              | 44.65                   | 0.009                                     |       |
| GEOM MEAN            |      | 0.043                                     | 0.125  |  | 26.9                              | 34.55                   | 0.007                                     |       |
| MINIMUM              |      | 0.016                                     | 0.056  | 4  | 4.7                               | 8.60                    | 0.001                                     |       |
| STD DEV (GEOM *)     |      | 0.024                                     | 0.045  |  | 30.2                              | 31.22                   | 0.007                                     |       |
| # SAMP IN STATISTICS |      | 12  | 12   | 6  | 12                                | 12                      | 12  |       |
| % SAMP (EXCLUDED)    |      |   |  | 40   |                                   |                         |   |       |



B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT FIRST CONC.WEST OF HIGHWAY 4 EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF103

STATION ID: 08-0022-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 43.97 LONG: 081 30 34.87

U T M: 17 0458700.0 4800950.0 4

REGION: 01

DISTANCE: 134.377

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |          |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |          |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |          |          | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE   | PROJECT  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HR   | DEPTH    | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER   | CODE     |          |          |          |          |          |          |          |          |
| 870113               | 0925 | 36806    | 0101     | 281.0    | 1.06     |          | 31.000   | 690.0    | 0.002    | 14.5     | 164      |
| 870210               | 1040 | 36819    | 0101     | 288.0    | 0.93     |          | 25.500   | 675.0    | 0.001    | 13.5     |          |
| 870309               | 1010 | 36832    | 0101     | 177.0    | 2.20     | 12.500   |          | 449.0    |          |          |          |
| 870413               | 1050 | 36845    | 0101     | 243.0    | 1.81     |          | 18.000   | 620.0    | 0.003    | 12.5     | 252      |
| 870511               | 1140 | 36858    | 0101     | 191.0    | 1.27     |          | 20.000   | 486.0    | 0.001    | 11.0     | 10AID    |
| 870608               | 1120 | 36871    | 0101     | 165.0    | 1.86     |          | 21.000   | 424.0    | 0.002    | 9.0      | 600>     |
| 870713               | 1120 | 36884    | 0101     | 154.0    | 0.78     |          | 21.500   | 402.0    | 0.004    | 9.0      | 1100     |
| 870810               | 1105 | 36897    | 0101     | 132.0    | 1.09     |          | 41.500   | 417.0    | 0.003    | 9.0      | 1300     |
| 870914               | 1120 | 36910    | 0101     |          | 1.26     | 31.500   |          | 409.0    | 0.002    | 8.5      | 220      |
| 871014               | 1130 | 36923    | 0101     | 224.4    | 0.79     | 54.240   |          | 665.0    | 0.001    | 12.5     | 88       |
| 871109               | 1110 | 36936    | 0101     | 201.4    | 1.82     | 31.780   |          | 645.0    | 0.003    | 13.5     | 1500>    |
| 871214               | 1105 | 36949    | 0101     | 218.2    | 1.16     | 34.730   |          | 640.0    | 0.005    | 13.0     | 260      |
| MAXIMUM              |      | 0.30     |          | 288.0    | 2.20     | 54.240   | 41.500   | 690.0    | 0.005    | 14.5     | 1300     |
| ARITH MEAN           |      | 0.30     |          | 206.8    | 1.34     | 32.950   | 25.500   | 543.5    | 0.002    | 11.5     | 424      |
| GEOM MEAN            |      |          |          | 201.3    | 1.26     | 29.818   | 24.522   | 531.0    | 0.002    | 11.3     |          |
| MINIMUM              |      | 0.30     |          | 132.0    | 0.78     | 12.500   | 18.000   | 402.0    | 0.001    | 8.5      | 10       |
| STD DEV (GEOM *)     |      |          |          | 50.1     | 0.47     | 14.816   | 8.256    | 120.5    | 0.001    | 2.2      |          |
| # SAMP IN STATISTICS |      | 12       |          | 11       | 12       | 5        | 7        | 12       | 11       | 11       | 8        |
| % SAMP (EXCLUDED)    |      |          |          |          |          |          |          |          |          |          | 20       |
| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC   | FWTEMP   | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      | FECAL    |          |          | NH3-N    |          |          | K'DAHL N |          |          |          |
|                      |      | STREPCUS |          |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
|                      |      | MF       |          | WATER    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
|                      |      | CNT      | STREAM   | TEMP     | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |
|                      |      | /100ML   | COND.    | DEG.C    | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |
| SAMPLE               |      |          |          |          |          |          |          |          |          |          |          |
| DATE                 | HR   | NUMBER   |          |          |          |          |          |          |          |          |          |
| YYMMDD               | LMT  |          |          |          |          |          |          |          |          |          |          |
| 870113               | 0925 | 36806    | 4        | 1.0      | 0.395    | 0.020    | 4.800    | 0.900    | 0.003<   | 8.28     | 0.031    |
| 870210               | 1040 | 36819    | 4        | 1.0      | 0.145    | 0.010    | 5.100    | 0.590    | 0.004    | 8.13     | 0.019    |
| 870309               | 1010 | 36832    | 3        | 1.0      | 0.175    | 0.090    | 6.600    | 0.820    |          | 7.91     | 0.106    |
| 870413               | 1050 | 36845    | 112      | 9.5      | 0.015    | 0.180    | 6.000    | 0.740    | 0.003<   | 8.23     | 0.025    |
| 870511               | 1140 | 36858    | 68       | 19.0     | 0.005    | 0.110    | 3.200    | 0.730    | 0.003<   | 8.31     | 0.030    |
| 870608               | 1120 | 36871    | 600>     | 21.5     | 0.025    | 0.030    | 0.800    | 0.740    | 0.003<   | 8.19     | 0.004    |
| 870713               | 1120 | 36884    | 300      | 26.0     | 0.015    | 0.040    | 0.800    | 0.780    | 0.003<   | 8.27     | 0.034    |
| 870810               | 1105 | 36897    | 720      | 21.0     | 0.015    | 0.020    | 0.300    | 0.450    | 0.003<   | 8.03     | 0.012    |
| 870914               | 1120 | 36910    | 60       | 18.0     | 0.060    | 0.010    | 0.100<   | 0.840    | 0.003<   | 7.97     | 0.023    |
| 871014               | 1130 | 36923    | 68       | 7.5      | 0.005<   | 0.010<   | 0.600    | 0.490    | 0.003<   | 7.96     | 0.017    |
| 871109               | 1110 | 36936    | 1500>    | 7.0      | 0.073    | 0.010<   | 14.900   | 1.020    | 0.003<   | 7.99     | 0.059    |
| 871214               | 1105 | 36949    | 180      | 2.5      | 0.124    | 0.020    | 13.400   | 0.710    | 0.003<   | 8.11     | 0.008    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

162

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT FIRST CONC.WEST OF HIGHWAY 4 EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF103

STATION ID: 08-0022-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 43.97 LONG: 081 30 34.87 U T M: 17 0458700.0 4800950.0 4 REGION: 01 DISTANCE: 134.377

| *=INTERIM | TEST-NAME: | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH | PP04UR   |
|-----------|------------|----------|--------|--------|----------|----------|----------|----------|----------|----|----------|
|           |            | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |    |          |
|           |            | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |    | P04      |
| SAMPLE    |            | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |    | UNF.REAC |
| DATE      | HOUR       | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |    | MG/L     |
| YYMMDD    | LMT        | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH | AS P     |

|                      |                  |     |  |      |       |       |        |       |       |      |       |
|----------------------|------------------|-----|--|------|-------|-------|--------|-------|-------|------|-------|
|                      | MAXIMUM          | 720 |  | 26.0 | 0.395 | 0.180 | 14.900 | 1.020 | 0.004 | 8.31 | 0.106 |
|                      | ARITH MEAN       | 189 |  | 11.2 | 0.095 | 0.053 | 5.136  | 0.734 | 0.004 | 8.11 | 0.031 |
|                      | GEOM MEAN        |     |  | 6.4  |       |       |        | 0.716 |       | 8.11 | 0.022 |
|                      | MINIMUM          | 4   |  | 1.0  | 0.005 | 0.010 | 0.300  | 0.450 | 0.004 | 7.91 | 0.004 |
|                      | STD DEV (GEOM *) |     |  | 9.3  |       |       |        | 0.163 |       | 0.14 | 0.028 |
| # SAMP IN STATISTICS |                  | 8   |  | 12   | 11    | 10    | 11     | 12    | 1     | 12   | 12    |
| % SAMP (EXCLUDED)    |                  | 20  |  |      | 8     | 16    | 8      |       | 90    |      |       |

| *=INTERIM | TEST-NAME: | PPUT     | PSAMF    | RSP     | TURB     | ZNUT     |
|-----------|------------|----------|----------|---------|----------|----------|
|           |            | PHOSPHOR | PSEUDOMN |         |          |          |
|           |            | UNF.TOT. | AERUG.   | RESIDUE |          | ZINC     |
| SAMPLE    |            | MG/L     | MF       | PARTIC. | TURB'ITY | UNF.TOT. |
| DATE      | HOUR       | AS P     | CNT      | MG/L    | FTU      | MG/L     |
| YYMMDD    | LMT        |          | /100ML   |         |          | AS ZN    |

|        |      |       |       |     |      |       |        |
|--------|------|-------|-------|-----|------|-------|--------|
| 870113 | 0925 | 36806 | 0.056 | 4   | 5.0< | 2.00  | 0.002  |
| 870210 | 1040 | 36819 | 0.041 |     | 5.0< | 4.10  | 0.019  |
| 870309 | 1010 | 36832 | 0.150 |     | 10.3 | 12.90 |        |
| 870413 | 1050 | 36845 | 0.052 | 4<  | 5.0< | 6.20  | 0.003  |
| 870511 | 1140 | 36858 | 0.051 | 8   | 5.0< | 3.80  | 0.001< |
| 870608 | 1120 | 36871 | 0.097 | 4   | 5.0< | 4.20  | 0.003  |
| 870713 | 1120 | 36884 | 0.082 | 4   | 2.5  | 2.30  | 0.008  |
| 870810 | 1105 | 36897 | 0.056 | 4<  | 2.3  | 2.20  | 0.009  |
| 870914 | 1120 | 36910 | 0.059 | 4<  | 2.8  | 24.00 | 0.003  |
| 871014 | 1130 | 36923 | 0.041 | 4<  | 5.0< | 3.60  | 0.003  |
| 871109 | 1110 | 36936 | 0.342 | 16C | 25.0 | 21.00 | 0.008  |
| 871214 | 1105 | 36949 | 0.079 | 8   | 4.3  | 5.10  | 0.003  |

|                      |                  |       |    |      |       |       |
|----------------------|------------------|-------|----|------|-------|-------|
|                      | MAXIMUM          | 0.342 | 16 | 25.0 | 24.00 | 0.019 |
|                      | ARITH MEAN       | 0.092 | 7  | 7.9  | 7.62  | 0.006 |
|                      | GEOM MEAN        | 0.074 |    |      | 5.30  |       |
|                      | MINIMUM          | 0.041 | 4  | 2.3  | 2.00  | 0.002 |
|                      | STD DEV (GEOM *) | 0.084 |    |      | 7.55  |       |
| # SAMP IN STATISTICS |                  | 12    | 6  | 6    | 12    | 10    |
| % SAMP (EXCLUDED)    |                  |       | 40 | 50   |       | 9     |

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT MORRISON DAM EAST OF EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF104

STATION ID: 08-0022-017-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 31.82 LONG: 081 27 21.52 U T M: 17 0463050.0 4800550.0 4 REGION: 01 DISTANCE: 136.630

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE               | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | TOTAL    |
| DATE                 | HR   | DEPTH                | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | UNF.REAC |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | MG/L     |
|                      |      |                      |          |          |          |          | /100ML   | /100ML   |        |        | AS N     |
| 870113               | 0710 | 36800                | 0101     |          | 15.500   | 645.0    | 16       | 12       | 6      | 1.0    | 0.060    |
| 870210               | 0810 | 36813                | 0101     |          | 15.500   | 645.0    |          |          | 4      | 1.0    | 0.365    |
| 870309               | 0810 | 36826                | 0101     | 10.000   |          | 423.0    |          |          | 6      | 1.0    | 0.080    |
| 870413               | 0810 | 36839                | 0101     |          | 14.000   | 595.0    | 600>     | 144      | 6      | 8.5    | 0.025    |
| 870511               | 0905 | 36852                | 0101     |          | 15.500   | 451.0    | 20AID    | 72       | 8      | 18.5   | 0.060    |
| 870608               | 0900 | 36865                | 0101     |          | 14.500   | 361.0    | 4<       | 12       | 7      | 22.5   | 0.070    |
| 870713               | 0900 | 36878                | 0101     |          | 13.500   | 361.0    | 4        | 20       | 7      | 27.0   | 0.065    |
| 870810               | 0855 | 36891                | 0101     |          | 14.500   | 282.0    | 4<       | 4<       | 7      | 22.5   | 0.130    |
| 870914               | 0855 | 36904                | 0101     | 16.500   |          | 283.0    | 4<       | 12       | 5 8    | 19.5   | 0.250    |
| 871014               | 0850 | 36917                | 0101     | 13.580   |          | 358.0    | 10<      | 10<      | 5      | 9.0    | 0.110    |
| 871109               | 0900 | 36930                | 0101     | 30.910   |          | 635.0    | 1500>    | 1500>    | 3      | 7.0    | 0.104    |
| 871214               | 0850 | 36943                | 0101     | 22.610   |          | 590.0    | 280      | 310      | 6      | 3.0    | 0.046    |
|                      |      | MAXIMUM              | 0.30     |          | 30.910   | 15.500   | 280      | 310      |        | 27.0   | 0.365    |
|                      |      | ARITH MEAN           | 0.30     |          | 18.720   | 14.714   | 80       | 83       |        | 11.7   | 0.114    |
|                      |      | GEOM MEAN            |          |          | 17.336   | 14.695   |          |          |        | 6.7    | 0.088    |
|                      |      | MINIMUM              | 0.30     |          | 10.000   | 13.500   | 4        | 12       |        | 1.0    | 0.025    |
|                      |      | STD DEV (GEOM *)     |          |          | 8.233    | 0.809    | 143.9    |          |        | 9.7    | 0.098    |
|                      |      | # SAMP IN STATISTICS | 12       |          | 5        | 7        | 12       | 4        | 7      | 12     | 12       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          | 60       | 30     |        |          |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |       |
|----------------------|------|----------|----------|----------|-------|----------|----------|----------|---------|----------|-------|
|                      |      | N02-N    | N03-N    | K'DAHL N |       | P04      | PHOSPHOR | PSEUDOMN |         |          |       |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |       |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH    | MG/L     | MG/L     | MF       | PARTIC. | FTU      |       |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |       | AS P     | AS P     | CNT      | MG/L    |          |       |
|                      |      |          |          |          |       |          |          | /100ML   |         |          |       |
| 870113               | 0710 | 36800    | 0.020    | 5.500    | 3.500 | 7.86     | 0.010    | 0.027    | 4<      | 5.0<     | 1.89  |
| 870210               | 0810 | 36813    | 0.010    | 5.100    | 0.890 | 7.98     | 0.053    | 0.090    |         | 5.0<     | 2.10  |
| 870309               | 0810 | 36826    | 0.090    | 6.600    | 0.700 | 7.78     | 0.106    | 0.147    |         | 14.4     | 15.00 |
| 870413               | 0810 | 36839    | 0.040    | 6.000    | 0.490 | 8.05     | 0.007    | 0.024    | 8       | 5.0<     | 3.40  |
| 870511               | 0905 | 36852    | 0.100    | 3.500    | 0.590 | 8.24     | 0.017    | 0.026    | 4<      | 5.0<     | 4.80  |
| 870608               | 0900 | 36865    | 0.050    | 1.000    | 0.800 | 8.33     | 0.003    | 0.045    | 4<      | 4.9      | 5.00  |
| 870713               | 0900 | 36878    | 0.100    | 3.900    | 1.070 | 8.19     | 0.002    | 0.029    | 8       | 5.0<     | 1.32  |
| 870810               | 0855 | 36891    | 0.050    | 0.300    | 1.920 | 8.62     | 0.001<   | 0.090    | 4<      | 17.5     | 19.50 |
| 870914               | 0855 | 36904    | 0.020    | 0.100<   | 1.490 | 8.14     | 0.010    | 0.074    | 4<      | 13.0     | 12.30 |
| 871014               | 0850 | 36917    | 0.010    | 0.200    | 1.500 | 8.22     | 0.015    | 0.102    | 4<      | 16.4     | 15.40 |
| 871109               | 0900 | 36930    | 0.010<   | 15.700   | 1.020 | 7.90     | 0.067    | 0.176    | 48C     | 17.3     | 16.10 |
| 871214               | 0850 | 36943    | 0.010    | 14.600   | 0.590 | 7.82     | 0.001<   | 0.055    | 12      | 5.0<     | 4.40  |

( C O N T D )

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT MORRISON DAM EAST OF EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF104

STATION ID: 08-0022-017-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 31.82 LONG: 081 27 21.52

U T M: 17 0463050.0 4800550.0 4

REGION: 01

DISTANCE: 136.630

| *=INTERIM TEST-NAME:     |                  | NNO2UR                   | NN03UR                   | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR                   | PPUT                     | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU |
|--------------------------|------------------|--------------------------|--------------------------|-----------------------------|------|--------------------------|--------------------------|--|-----------------------------------|-------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT      | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | PH   | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P |  |                                   |                         |
|                          | MAXIMUM          | 0.100                    | 15.700                   | 3.500                       | 8.62 | 0.106                    | 0.176                    | 48   | 17.5                              | 19.50                   |
|                          | ARITH MEAN       | 0.045                    | 5.673                    | 1.213                       | 8.09 | 0.029                    | 0.074                    | 19   | 13.9                              | 8.43                    |
|                          | GEOM MEAN        |                          |                          | 1.028                       | 8.09 |                          | 0.059                    |  |                                   | 5.87                    |
|                          | MINIMUM          | 0.010                    | 0.200                    | 0.490                       | 7.78 | 0.002                    | 0.024                    | 8  | 4.9                               | 1.32                    |
|                          | STD DEV (GEOM *) |                          |                          | 0.841                       | 0.25 |                          | 0.050                    |  |                                   | 6.66                    |
| # SAMP IN STATISTICS     |                  | 11                       | 11                       | 12                          | 12   | 10                       | 12                       | 4  | 6                                 | 12                      |
| % SAMP (EXCLUDED)        |                  | 8                        | 8                        |                             |      | 16                       |                          | 60   | 50                                |                         |

## 165

STATION ID: 08-0040-006-02

STORET CODE: 02  
002  
0370

**DISTANCE: 21.243**

( C O N T D )

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: FIRST CONCESSION DOWNSTREAM FROM CLINTON  
 STATION TYPE: RIVER

STATION ID: 08-0040-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 35 18.42 LONG: 081 33 28.95 U T M: 17 0454950.0 4826100.0 4 REGION: 01 DISTANCE: 21.243

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|

|                      |     |  |  |      |       |       |        |       |       |      |       |
|----------------------|-----|--|--|------|-------|-------|--------|-------|-------|------|-------|
| MAXIMUM              | 260 |  |  | 26.5 | 0.320 | 0.570 | 13.700 | 1.240 | 0.003 | 8.28 | 0.130 |
| ARITH MEAN           | 111 |  |  | 10.7 | 0.074 | 0.102 | 5.750  | 0.739 | 0.003 | 8.11 | 0.030 |
| GEOM MEAN            |     |  |  | 5.8  |       |       | 4.581  | 0.704 |       | 8.11 |       |
| MINIMUM              | 12  |  |  | 0.5  | 0.010 | 0.010 | 1.400  | 0.450 | 0.003 | 7.92 | 0.002 |
| STD DEV (GEOM *)     |     |  |  | 9.2  |       |       | 3.686  | 0.252 |       | 0.12 |       |
| # SAMP IN STATISTICS | 9   |  |  | 12   | 9     | 10    | 12     | 12    | 2     | 12   | 10    |
| % SAMP (EXCLUDED)    | 10  |  |  |      | 25    | 16    |        |       | 81    |      | 9     |

| *=INTERIM TEST-NAME: |  | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|--|--|--|-----------------------------------|-------------------------|---|
|----------------------|--|--|--|-----------------------------------|-------------------------|---|

|        |      |       |       |    |      |       |        |
|--------|------|-------|-------|----|------|-------|--------|
| 870113 | 0825 | 36803 | 0.032 | 4  | 5.0< | 1.40  | 0.002  |
| 870210 | 0930 | 36816 | 0.072 |    | 5.0< | 2.00  | 0.029  |
| 870309 | 0915 | 36829 | 0.180 |    | 8.9  | 8.70  |        |
| 870413 | 0950 | 36842 | 0.094 | 44 | 5.0< | 9.40  | 0.004  |
| 870511 | 1035 | 36855 | 0.021 | 4< | 5.0< | 1.10  | 0.001< |
| 870608 | 1010 | 36868 | 0.036 | 4< | 5.0< | 1.20  | 0.005  |
| 870713 | 1020 | 36881 | 0.051 | 32 | 5.0< | 4.40  | 0.003  |
| 870810 | 1010 | 36894 | 0.019 | 44 | 5.0< | 2.30  | 0.017  |
| 870914 | 1015 | 36907 | 0.012 | 4< | 5.0< | 2.90  | 0.009  |
| 871014 | 1010 | 36920 | 0.016 |    | 5.0< | 1.64  | 0.001  |
| 871109 | 1010 | 36933 | 0.254 | 28 | 22.9 | 16.80 | 0.006  |
| 871214 | 1005 | 36946 | 0.055 | 8  | 5.0< | 2.40  | 0.003  |

|                      |       |    |      |       |       |
|----------------------|-------|----|------|-------|-------|
| MAXIMUM              | 0.254 | 44 | 22.9 | 16.80 | 0.029 |
| ARITH MEAN           | 0.070 | 27 | 15.9 | 4.52  | 0.008 |
| GEOM MEAN            | 0.045 |    |      | 3.02  |       |
| MINIMUM              | 0.012 | 4  | 8.9  | 1.10  | 0.001 |
| STD DEV (GEOM *)     | 0.074 |    |      | 4.78  |       |
| # SAMP IN STATISTICS | 12    | 6  | 2    | 12    | 10    |
| % SAMP (EXCLUDED)    |       | 33 | 83   |       | 9     |

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT HURON COUNTY ROAD 31 NORTH OF VARNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 02.52 LONG: 081 35 21.34

U T M: 17 0452400.0 4821925.0 4

REGION: 01

DISTANCE: 14.162

| *=INTERIM TEST-NAME: |       | FWSADP | FGPROJ               | ALKT  | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FEUT     | FMSF     |          |
|----------------------|-------|--------|----------------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |       |        |                      |       |          |          |          |          |          |          |          |          |
| SAMPLE DATE          | YMMDD | TIME   | NUMBER               | DEPTH | PROJECT  | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | FECAL    | IRON     |
| YMMDD                | LMT   |        |                      | M     | SUB-PROJ | TOTAL    | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | COLIFORM | UNF.TOT. |
|                      |       |        |                      |       | CODE     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MG/L     |
|                      |       |        |                      |       |          | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | AS CU    | /100ML   | AS FE    |
|                      |       |        |                      |       |          |          |          |          |          |          |          |          |
| 870113               | 0850  |        | 36804                | 0.30  | 0101     | 273.0    |          | 25.000   | 645.0    | 0.001<W  | 92       | 0.022    |
| 870210               | 0950  |        | 36817                | 0.30  | 0101     | 281.0    |          | 28.000   | 680.0    | 0.003<   |          | 0.090    |
| 870309               | 0930  |        | 36830                | 0.30  | 0101     | 188.0    | 11.000   |          | 473.0    | 0.002    |          | 0.500    |
| 870413               | 1010  |        | 36843                | 0.30  | 0101     | 237.0    |          | 21.000   | 630.0    | 0.001    | 1170     | 0.350    |
| 870511               | 1100  |        | 36856                | 0.30  | 0101     | 196.0    |          | 22.000   | 510.0    | 0.001    | 16       | 0.046    |
| 870608               | 1030  |        | 36869                | 0.30  | 0101     | 192.0    |          | 23.500   | 515.0    | 0.001    | 72       | 0.081    |
| 870713               | 1040  |        | 36882                | 0.30  | 0101     | 204.0    |          | 20.500   | 560.0    | 0.004    | 112      | 0.260    |
| 870810               | 1030  |        | 36895                | 0.30  | 0101     | 182.0    |          | 24.000   | 437.0    | 0.001<W  | 144      | 0.120    |
| 870914               | 1035  |        | 36908                | 0.30  | 0101     |          | 27.000   |          | 480.0    | 0.001<   | 28       | 0.069    |
| 871014               | 1040  |        | 36921                | 0.30  | 0101     | 220.3    | 25.780   |          | 570.0    | 0.001    | 8        | 0.062    |
| 871109               | 1030  |        | 36934                | 0.30  | 0101     | 207.3    | 28.790   |          | 625.0    | 0.004    | 1500>    | 0.560    |
| 871214               | 1025  |        | 36947                | 0.30  | 0101     | 216.3    | 27.270   |          | 595.0    | 0.005    | 190      | 0.090    |
|                      |       |        | MAXIMUM              | 0.30  |          | 281.0    | 28.790   | 28.000   | 680.0    | 0.005    | 1170     | 0.560    |
|                      |       |        | ARITH MEAN           | 0.30  |          | 217.9    | 23.968   | 23.429   | 560.0    | 0.002<A  | 204      | 0.187    |
|                      |       |        | GEOM MEAN            |       |          | 215.8    | 22.688   | 23.310   | 555.0    |          |          | 0.120    |
|                      |       |        | MINIMUM              | 0.30  |          | 182.0    | 11.000   | 20.500   | 437.0    | 0.001    | 8        | 0.022    |
|                      |       |        | STD DEV (GEOM *)     |       |          | 33.2     | 7.328    | 2.589    | 77.3     |          |          | 0.186    |
|                      |       |        | # SAMP IN STATISTICS | 12    |          | 11       | 5        | 7        | 12       | 10       | 9        | 12       |
|                      |       |        | % SAMP (EXCLUDED)    |       |          |          |          |          |          | 16       | 10       | 40       |

| *=INTERIM TEST-NAME: |       | FWFLOW | FWSTRC | FWTEMP | NNHTUR | NNQ2UR | NNQ3UR   | NNTKUR   | PBUT     | PH       | PHNOL  |          |
|----------------------|-------|--------|--------|--------|--------|--------|----------|----------|----------|----------|--------|----------|
|                      |       |        |        |        | NH3-N  |        |          | K'DAHL N |          |          |        |          |
| SAMPLE DATE          | YMMDD | TIME   | NUMBER | FLOW   | COND.  | TEMP   | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | LEAD   | PHENOLS  |
| YMMDD                | LMT   |        |        | M3     |        | DEG.C  | MG/L     | MG/L     | MG/L     | MG/L     | AS PB  | UNF-REAC |
|                      |       |        |        | /S     |        |        | AS N     | AS N     | AS N     | AS N     |        | UG/L     |
|                      |       |        |        |        |        |        |          |          |          |          |        | PHENOL   |
| 870113               | 0850  |        | 36804  | 2.850  | 6      | 1.0    | 0.015    | 0.010    | 5.100    | 0.430    | 0.009  | 8.29     |
| 870210               | 0950  |        | 36817  | 1.110  | 6      | 1.0    | 0.165    | 0.010<   | 4.900    | 0.630    | 0.030< | 8.10     |
| 870309               | 0930  |        | 36830  | 61.500 | 6      | 1.0    | 0.115    | 0.100    | 7.400    | 0.780    | 0.006  | 7.94     |
| 870413               | 1010  |        | 36843  | 15.600 | 6      | 7.5    | 0.005    | 0.310    | 6.400    | 0.900    | 0.003< | 8.09     |
| 870511               | 1100  |        | 36856  | 0.953  | 6      | 18.0   | 0.025    | 0.080    | 2.900    | 0.570    | 0.003< | 8.31     |
| 870608               | 1030  |        | 36869  | 0.518  | 8      | 20.5   | 0.030    | 0.030    | 4.800    | 0.850    | 0.003< | 8.35     |
| 870713               | 1040  |        | 36882  | 0.708  | 8      | 26.0   | 0.015    | 0.020    | 7.700    | 0.810    | 0.030< | 8.35     |
| 870810               | 1030  |        | 36895  | 0.405  | 8      | 19.0   | 0.005    | 0.020    | 1.700    | 0.460    | 0.003< | 8.41     |
| 870914               | 1035  |        | 36908  | 0.196  | 8      | 17.5   | 0.025    | 0.020    | 1.500    | 0.480    | 0.003< | 8.27     |
| 871014               | 1040  |        | 36921  | 0.122  | 8      | 7.5    | 0.005<   | 0.010<   | 1.700    | 0.310    | 0.003< | 8.12     |
| 871109               | 1030  |        | 36934  | 12.400 | 3      | 7.0    | 0.004    | 0.010<   |          | 0.940    | 0.003< | 8.01     |
| 871214               | 1025  |        | 36947  | 10.500 | 6      | 2.5    | 0.019    | 0.010    | 13.700   | 0.540    | 0.003< | 8.09     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

168

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT HURON COUNTY ROAD 31 NORTH OF VARNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 02.52 LONG: 081 35 21.34

U T M: 17 0452400.0 4821925.0 4

REGION: 01

DISTANCE: 14.162

| *=INTERIM TEST-NAME: |     | FWFLOW               | FWSTRC          | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT.  | PH | PHNOL<br>PHENOLS<br>UNF-REAC |
|----------------------|-----|----------------------|-----------------|------------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|----|------------------------------|
| SAMPLE<br>DATE       | HR  | STREAM<br>FLOW<br>M3 | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH | PHENOL<br>UG/L<br>PHENOL     |
| YYMMDD               | LMT | SAMPLE<br>NUMBER     |                 |                        |                          |                             |                             |                             |                           |    |                              |

|                      |        |  |  |      |       |       |        |       |       |      |  |
|----------------------|--------|--|--|------|-------|-------|--------|-------|-------|------|--|
| MAXIMUM              | 61.500 |  |  | 26.0 | 0.165 | 0.310 | 13.700 | 0.940 | 0.009 | 8.41 |  |
| ARITH MEAN           | 8.905  |  |  | 10.7 | 0.038 | 0.067 | 5.255  | 0.642 | 0.007 | 8.19 |  |
| GEOM MEAN            | 1.822  |  |  | 6.2  |       |       | 4.219  | 0.609 |       | 8.19 |  |
| MINIMUM              | 0.122  |  |  | 1.0  | 0.004 | 0.010 | 1.500  | 0.310 | 0.006 | 7.94 |  |
| STD DEV (GEOM *)     | 17.449 |  |  | 9.0  |       |       | 3.585  | 0.208 |       | 0.15 |  |
| # SAMP IN STATISTICS | 12     |  |  | 12   | 11    | 9     | 11     | 12    | 2     | 12   |  |
| % SAMP (EXCLUDED)    |        |  |  |      | 8     | 25    |        |       | 83    |      |  |

| *=INTERIM TEST-NAME: |     | PP04UR                   | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG. | RSP                        | TURB            | ZNUT                              |
|----------------------|-----|--------------------------|--------------------------------------|-----------------------------|----------------------------|-----------------|-----------------------------------|
| SAMPLE<br>DATE       | HR  | UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML         | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
| YYMMDD               | LMT | SAMPLE<br>NUMBER         |                                      |                             |                            |                 |                                   |

|        |      |       |        |       |     |      |       |         |
|--------|------|-------|--------|-------|-----|------|-------|---------|
| 870113 | 0850 | 36804 | 0.009  | 0.019 | 4<  | 5.0< | 1.19  | 0.002   |
| 870210 | 0950 | 36817 | 0.076  | 0.059 |     | 5.0< | 3.20  | 0.010   |
| 870309 | 0930 | 36830 | 0.118  | 0.174 |     | 13.0 | 3.90  | 0.027   |
| 870413 | 1010 | 36843 | 0.045  | 0.083 | 4   | 5.0< | 13.30 | 0.008   |
| 870511 | 1100 | 36856 | 0.013  | 0.015 | 4<  | 5.0< | 1.63  | 0.002   |
| 870608 | 1030 | 36869 | 0.002  | 0.030 | 4<  | 5.0< | 3.00  | 0.002   |
| 870713 | 1040 | 36882 | 0.001< | 0.049 | 112 | 7.9  | 9.40  | 0.005   |
| 870810 | 1030 | 36895 | 0.001< | 0.024 | 52  | 5.0< | 2.10  | 0.001<W |
| 870914 | 1035 | 36908 | 0.004  | 0.012 | 4<  | 5.0< | 0.86  | 0.003   |
| 871014 | 1040 | 36921 | 0.003  | 0.011 | 4<  | 5.0< | 1.74  | 0.004   |
| 871109 | 1030 | 36934 | 0.045  | 0.122 | 32C | 29.5 | 13.00 | 0.007   |
| 871214 | 1025 | 36947 | 0.001< | 0.044 | 4   | 5.0< | 3.20  | 0.003   |

|                      |       |       |     |      |       |         |
|----------------------|-------|-------|-----|------|-------|---------|
| MAXIMUM              | 0.118 | 0.174 | 112 | 29.5 | 13.30 | 0.027   |
| ARITH MEAN           | 0.035 | 0.053 | 41  | 16.8 | 4.71  | 0.006<A |
| GEOM MEAN            |       | 0.037 |     |      | 3.21  | 0.004<A |
| MINIMUM              | 0.002 | 0.011 | 4   | 7.9  | 0.86  | 0.001   |
| STD DEV (GEOM *)     |       | 0.050 |     |      | 4.52  | 0.007<A |
| # SAMP IN STATISTICS | 9     | 12    | 5   | 3    | 12    | 12      |
| % SAMP (EXCLUDED)    | 25    |       | 50  | 75   |       |         |



B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF SEAFORTH  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 32 44.80 LONG: 081 25 50.77

U T M: 17 0465200.0 4821300.0 4

REGION: 01

DISTANCE: 45.382

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 |          |          |          |          |          |          |          |
| 870113               | 0800 | 36802  | 0101     | 290.0    | 0.52     |          | 21.500   | 690.0    | 0.002    | 14.0     | 124      |
| 870210               | 0900 | 36815  | 0101     | 303.0    | 0.79     |          | 27.000   | 725.0    | 0.001    | 6.5      |          |
| 870309               | 0855 | 36828  | 0101     | 200.0    | 2.10     | 12.000   |          | 505.0    | 0.002    | 10.0     |          |
| 870413               | 0925 | 36841  | 0101     | 255.0    | 3.60     |          | 26.000   | 670.0    | 0.003    | 10.0     | 600>     |
| 870511               | 1000 | 36854  | 0101     | 183.0    | 1.24     |          | 24.500   | 515.0    | 0.004    | 10.5     | 80AID    |
| 870608               | 0945 | 36867  | 0101     | 193.0    | 1.27     |          | 27.000   | 575.0    | 0.003    | 7.5      | 600>     |
| 870713               | 0945 | 36880  | 0101     | 328.0    | 0.92     |          | 20.500   | 570.0    | 0.004    | 10.0     | 420      |
| 870810               | 0945 | 36893  | 0101     | 163.0    | 0.71     |          | 43.000   | 590.0    | 0.004    | 10.0     | 380      |
| 870914               | 0950 | 36906  | 0101     |          | 0.88     | 72.500   |          | 790.0    | 0.003    | 8.0      | 276      |
| 871014               | 0940 | 36919  | 0101     | 163.0    | 0.63     | 55.420   |          | 770.0    | 0.003    | 12.5     | 44       |
| 871109               | 0945 | 36932  | 0101     | 222.4    | 1.82     | 36.390   |          | 665.0    | 0.003    | 12.5     | 1500>    |
| 871214               | 0940 | 36945  | 0101     | 213.9    | 0.63     | 29.900   |          | 605.0    | 0.005    | 12.5     | 220      |
| MAXIMUM              |      | 0.30   |          | 328.0    | 3.60     | 72.500   | 43.000   | 790.0    | 0.005    | 14.0     | 420      |
| ARITH MEAN           |      | 0.30   |          | 228.6    | 1.26     | 41.242   | 27.071   | 639.2    | 0.003    | 10.3     | 221      |
| GEOM MEAN            |      |        |          | 222.3    | 1.06     | 34.992   | 26.342   | 632.8    | 0.003    | 10.1     |          |
| MINIMUM              |      | 0.30   |          | 163.0    | 0.52     | 12.000   | 20.500   | 505.0    | 0.001    | 6.5      | 44       |
| STD DEV (GEOM *)     |      |        |          | 57.4     | 0.89     | 23.374   | 7.480    | 94.1     | 0.001    | 2.3      |          |
| # SAMP IN STATISTICS |      | 12     |          | 11       | 12       | 5        | 7        | 12       | 12       | 12       | 7        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          | 30       |

| *INTERIM TEST-NAME: |      | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH     |      |
|---------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|--------|------|
|                     |      | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |        |      |
|                     |      | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |        |      |
|                     |      | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        |      |
| SAMPLE              |      | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH     |      |
| DATE                | HOUR | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |        |      |
| YYMMDD              | LMT  | NUMBER   |        |        |        |          |          |          |          |          |        |      |
| 870113              | 0800 | 36802    | 144    | 2.850  | 6      | 0.5      | 0.095    | 0.020    | 5.300    | 0.540    | 0.003< | 8.16 |
| 870210              | 0900 | 36815    |        | 1.110  | 4      | 1.0      | 0.400    | 0.010    | 5.000    | 0.990    | 0.004  | 7.86 |
| 870309              | 0855 | 36828    |        | 61.500 | 6      | 1.0      | 0.155    | 0.090    | 8.200    | 2.570    | 0.003< | 7.84 |
| 870413              | 0925 | 36841    | 168    | 15.600 | 6      | 7.0      | 0.005<   | 0.770    | 5.600    | 1.340    | 0.003< | 7.96 |
| 870511              | 1000 | 36854    | 148    | 0.953  | 8      | 19.0     | 0.010    | 0.140    | 2.200    | 0.730    | 0.003< | 8.11 |
| 870608              | 0945 | 36867    | 268    | 0.518  | 8      | 20.5     | 0.040    | 0.060    | 4.200    | 0.690    | 0.003< | 8.05 |
| 870713              | 0945 | 36880    | 340    | 0.708  | 9 8    | 26.5     | 0.028    | 0.040    | 6.300    | 0.860    | 0.003< | 8.23 |
| 870810              | 0945 | 36893    | 220    | 0.405  | 8      | 19.0     | 0.015    | 0.010    | 0.100    | 0.440    | 0.003< | 8.13 |
| 870914              | 0950 | 36906    | 84     | 0.196  | 8      | 18.5     | 0.080    | 0.020    | 0.100    | 0.560    | 0.003< | 7.87 |
| 871014              | 0940 | 36919    | 8      | 0.122  | 8      | 7.5      | 0.005<   | 0.010<   | 0.600    | 0.320    | 0.003< | 7.99 |
| 871109              | 0945 | 36932    | 6500>  | 12.400 | 3      | 6.5      | 0.045    | 0.010<   | 10.100   | 1.060    | 0.003< | 7.92 |
| 871214              | 0940 | 36945    | 210    | 10.500 | 6      | 0.5      | 0.034    | 0.010<   | 15.400   | 0.550    | 0.003< | 7.84 |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

170

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF SEAFORTH  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 32 44.80 LONG: 081 25 50.77

U T M: 17 0465200.0 4821300.0 4

REGION: 01

DISTANCE: 45.382

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|--------------------------|-------------|--|--------------------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                                      |                           |                                  |  |   |   |   |   |      |
|                          |             |  |                                      |                           |                                  |  |   |   |   |   |      |
|                          |             | MAXIMUM  | 340                                  | 61.500                    | 26.5                             | 0.400  | 0.770                                       | 15.400                                      | 2.570   | 0.004                                     | 8.23 |
|                          |             | ARITH MEAN                                       | 177                                  | 8.905                     | 10.6                             | 0.090  | 0.129                                       | 5.258                                       | 0.887   | 0.004                                     | 8.00 |
|                          |             | GEOM MEAN  |                                      | 1.822                     | 5.1                              |  |   | 2.522                                       | 0.759   |   | 8.00 |
|                          |             | MINIMUM  | 8                                    | 0.122                     | 0.5                              | 0.010  | 0.010                                       | 0.100                                       | 0.320   | 0.004                                     | 7.84 |
|                          |             | STD DEV (GEOM *)                                 |                                      | 17.449                    | 9.4                              |  |   | 4.488                                       | 0.603   |   | 0.14 |
|                          |             | # SAMP IN STATISTICS                             | 9                                    | 12                        | 12                               | 10   | 9   | 12  | 12  | 1   | 12   |
|                          |             | % SAMP (EXCLUDED)                                | 10                                   |                           |                                  | 16   | 25  |   |   | 91  |      |

| *=INTERIM TEST-NAME:     |             | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|---|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                          |  |  |                                   |                         |   |
|                          |             |   |  |  |                                   |                         |   |
| 870113                   | 0800        | 36802                                     | 0.038  | 0.056  | 4<                                | 5.0<                    | 2.10                                      |
| 870210                   | 0900        | 36815                                     | 0.078  | 0.109  |                                   | 5.0<                    | 4.50                                      |
| 870309                   | 0855        | 36828                                     | 0.144  | 0.192  |                                   | 4.9                     | 7.00                                      |
| 870413                   | 0925        | 36841                                     | 0.062  | 0.112  | 4<                                | 16.0                    | 11.90                                     |
| 870511                   | 1000        | 36854                                     | 0.019  | 0.033  | 4<                                | 5.0<                    | 2.40                                      |
| 870608                   | 0945        | 36867                                     | 0.006  | 0.044  | 4<                                | 7.1                     | 3.80                                      |
| 870713                   | 0945        | 36880                                     | 0.001<                                       | 0.044  | 12                                | 10.4                    | 7.40                                      |
| 870810                   | 0945        | 36893                                     | 0.001<                                       | 0.024  | 4                                 | 5.0<                    | 2.00                                      |
| 870914                   | 0950        | 36906                                     | 0.008  | 0.039  | 4<                                | 5.9                     | 4.80                                      |
| 871014                   | 0940        | 36919                                     | 0.005  | 0.014  | 4<                                | 5.0<                    | 2.30                                      |
| 871109                   | 0945        | 36932                                     | 0.051  | 0.278  | 32                                | 38.5                    | 16.60                                     |
| 871214                   | 0940        | 36945                                     | 0.001<                                       | 0.049  | 4                                 | 5.0<                    | 2.60                                      |
|                          |             | MAXIMUM                                   | 0.144  | 0.278  | 32                                | 38.5                    | 16.60                                     |
|                          |             | ARITH MEAN                                | 0.046  | 0.083  | 13                                | 13.8                    | 5.62                                      |
|                          |             | GEOM MEAN                                 |  | 0.058  |                                   |                         | 4.39                                      |
|                          |             | MINIMUM                                   | 0.005  | 0.014  | 4                                 | 4.9                     | 2.00                                      |
|                          |             | STD DEV (GEOM *)                          |  | 0.079  |                                   |                         | 4.54                                      |
|                          |             | # SAMP IN STATISTICS                      | 9  | 12   | 4                                 | 6                       | 12  |
|                          |             | % SAMP (EXCLUDED)                         | 25   |  | 60                                | 50                      | 8   |

B.O.W./ SITE: SILVER CREEK  
 SAMPLE POINT: HWY 8,SEAFORTH  
 STATION TYPE: RIVER

STATION ID: 08-0040-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 01.63 LONG: 081 22 57.09

U T M: 17 0469100.0 4821800.0 4

REGION: 01

DISTANCE: 48.430

| *=INTERIM TEST-NAME: |  | FWSADP       | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC   | FWTEMP   |
|----------------------|--|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |  |              |          |          |          |          |          | FECAL    | FECAL    |          |          |
|                      |  |              |          |          | CHLORIDE | CHLORIDE | CONDUCT. | COLIFORM | STREPCUS |          |          |
|                      |  |              |          |          | UNF.REAC | UNF.REAC | 25C      | MF       | MF       |          |          |
|                      |  |              |          |          | MG/L     | MG/L     | UMHO/CM  | CNT      | CNT      | STREAM   | WATER    |
|                      |  |              |          |          | AS CAC03 | AS CL    | AT 25 C  | /100ML   | /100ML   | COND.    | TEMP     |
|                      |  |              |          |          |          |          |          |          |          |          | DEG.C    |
| SAMPLE               |  | SAMPLE       | PROJECT  |          |          |          |          |          |          |          |          |
| DATE HOUR            |  | DEPTH        | SUB-PROJ |          |          |          |          |          |          |          |          |
| YYMMDD LMT           |  | M            | CODE     |          |          |          |          |          |          |          |          |
| 870113 0745          |  | 36801 0.30   | 0101     |          | 270.0    |          | 23.500   | 725.0    | 252      | 352      | 6 1.5    |
| 870210 0845          |  | 36814 0.30   | 0101     |          | 265.0    |          | 29.000   | 775.0    |          | 4        | 1.0      |
| 870309 0840          |  | 36827 0.30   | 0101     |          | 226.0    | 14.500   |          | 585.0    |          | 6        | 1.0      |
| 870413 0910          |  | 36840 0.30   | 0101     |          | 257.0    |          | 18.500   | 625.0    | 368      | 104      | 6 5.0    |
| 870511 0935          |  | 36853 0.30   | 0101     |          | 238.0    |          | 29.000   | 760.0    | 24       | 32       | 6 14.0   |
| 870608 0925          |  | 36866 0.30   | 0101     |          | 214.0    |          | 35.000   | 770.0    | 600>     | 600>     | 8 17.0   |
| 870713 0925          |  | 36879 0.30   | 0101     |          | 202.0    |          | 40.000   | 790.0    | 1500     | 310      | 9 8 23.5 |
| 870810 0925          |  | 36892 0.30   | 0101     |          | 206.0    |          | 54.000   | 945.0    | 580      | 280      | 8 17.0   |
| 870914 0930          |  | 36905 0.30   | 0101     |          |          | 64.500   |          | 1090.0   | 600>     | 232      | 8 15.5   |
| 871014 0920          |  | 36918 0.30   | 0101     |          | 214.5    | 58.810   |          | 1090.0   | 44       | 60       | 9 8 5.5  |
| 871109 0925          |  | 36931 0.30   | 0101     |          | 219.2    | 33.880   |          | 745.0    | 536      | 600>     | 6 7.5    |
| 871214 0920          |  | 36944 0.30   | 0101     |          | 226.5    | 28.860   |          | 675.0    | 210      | 210      | 6 4.5    |
| MAXIMUM              |  | 0.30         |          |          | 270.0    | 64.500   | 54.000   | 1090.0   | 1500     | 352      | 23.5     |
| ARITH MEAN           |  | 0.30         |          |          | 230.7    | 40.110   | 32.714   | 797.9    | 439      | 198      | 9.4      |
| GEOM MEAN            |  |              |          |          | 229.7    | 35.166   | 31.021   | 783.6    |          |          | 6.0      |
| MINIMUM              |  | 0.30         |          |          | 202.0    | 14.500   | 18.500   | 585.0    | 24       | 32       | 1.0      |
| STD DEV (GEOM *)     |  |              |          |          | 23.7     | 21.011   | 11.733   | 163.4    |          |          | 7.6      |
| # SAMP IN STATISTICS |  | 12           |          |          | 11       | 5        | 7        | 12       | 8        | 8        | 12       |
| % SAMP (EXCLUDED)    |  |              |          |          |          |          |          |          | 20       | 20       |          |
| *=INTERIM TEST-NAME: |  | NNHTUR       | NNO2UR   | NNO3UR   | NNTKUR   | PH       | PP04UR   | PPUT     | RSP      | TURB     |          |
|                      |  | NH3-N        |          |          | K'DAHL N |          |          |          |          |          |          |
|                      |  | TOTAL        |          |          | TOTAL    |          |          |          |          |          |          |
|                      |  | UNF.REAC     | UNF.REAC | UNF.REAC | UNF.REAC |          | PO4      | PHOSPHOR | RESIDUE  | TURB'ITY |          |
|                      |  | MG/L         | MG/L     | MG/L     | MG/L     |          | UNF.REAC | UNF.TOT. | PARTIC.  | FTU      |          |
|                      |  | AS N         | AS N     | AS N     | AS N     | PH       | AS P     | MG/L     | MG/L     |          |          |
| SAMPLE               |  |              |          |          |          |          |          |          |          |          |          |
| DATE HOUR            |  |              |          |          |          |          |          |          |          |          |          |
| YYMMDD LMT           |  |              |          |          |          |          |          |          |          |          |          |
| 870113 0745          |  | 36801 0.055  | 0.010    | 6.200    | 0.460    | 8.08     | 0.024    | 0.034    | 5.0<     | 1.90     |          |
| 870210 0845          |  | 36814 0.310  | 0.010    | 5.600    | 0.950    | 7.70     | 0.096    | 0.167    | 5.0<     | 5.90     |          |
| 870309 0840          |  | 36827 0.046  | 0.050    | 9.700    | 0.770    | 7.80     | 0.077    | 0.162    | 16.4     | 3.90     |          |
| 870413 0910          |  | 36840 0.025  | 0.040    | 8.400    | 0.460    | 7.96     | 0.024    | 0.047    | 5.0<     | 5.40     |          |
| 870511 0935          |  | 36853 0.040  | 0.140    | 4.700    | 0.430    | 8.08     | 0.013    | 0.017    | 5.0<     | 1.90     |          |
| 870608 0925          |  | 36866 0.030  | 0.070    | 2.900    | 0.370    | 7.89     | 0.001<   | 0.019    | 2.3      | 1.59     |          |
| 870713 0925          |  | 36879 0.045  | 0.050    | 1.700    | 0.450    | 7.89     | 0.001<   | 0.017    | 2.3      | 2.30     |          |
| 870810 0925          |  | 36892 0.030  | 0.020    | 1.200    | 0.310    | 8.04     | 0.004    | 0.017    | 5.0<     | 1.31     |          |
| 870914 0930          |  | 36905 0.075  | 0.040    | 1.200    | 0.430    | 7.74     | 0.005    | 0.014    | 5.0<     | 2.20     |          |
| 871014 0920          |  | 36918 0.005< | 0.010<   | 2.400    | 0.270    | 7.83     | 0.006    | 0.018    | 5.0<     | 2.60     |          |
| 871109 0925          |  | 36931 0.003  | 0.010<   | 16.000   | 0.580    | 7.86     | 0.041    | 0.128    | 3.2      | 4.00     |          |
| 871214 0920          |  | 36944 0.018  | 0.010<   | 16.100   | 0.450    | 7.74     | 0.001<   | 0.026    | 5.0<     | 0.83     |          |

( C O N T D )

B.O.W./ SITE: SILVER CREEK  
 SAMPLE POINT: HWY 8,SEAFORTH  
 STATION TYPE: RIVER

STATION ID: 08-0040-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 01.63 LONG: 081 22 57.09 U T M: 17 0469100.0 4821800.0 4 REGION: 01 DISTANCE: 48.430

| *=INTERIM TEST-NAME: |          | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH    | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|----------|----------|----------|----------|----------|-------|----------|----------|---------|----------|
|                      |          | NH3-N    |          |          | K'DAHL N |       | P04      | PHOSPHOR |         |          |
|                      |          | TOTAL    | N02-N    | N03-N    | TOTAL    |       | UNF.REAC | UNF.TOT. | RESIDUE |          |
| SAMPLE               | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | PARTIC. | TURB'ITY |
| DATE HOUR            | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH    | MG/L     | MG/L     | MG/L    | FTU      |
| YYMMDD LMT           | AS N     | AS N     | AS N     | AS N     | AS N     |       | AS P     | AS P     |         |          |
| MAXIMUM              | 0.310    | 0.140    | 16.100   | 0.950    | 8.08     | 0.096 | 0.167    | 16.4     | 5.90    |          |
| ARITH MEAN           | 0.062    | 0.048    | 6.342    | 0.494    | 7.88     | 0.032 | 0.055    | 6.0      | 2.82    |          |
| GEOM MEAN            |          |          | 4.438    | 0.466    | 7.88     |       | 0.035    |          | 2.42    |          |
| MINIMUM              | 0.003    | 0.010    | 1.200    | 0.270    | 7.70     | 0.004 | 0.014    | 2.3      | 0.83    |          |
| STD DEV (GEOM *)     |          |          | 5.301    | 0.192    | 0.13     |       | 0.060    |          | 1.62    |          |
| # SAMP IN STATISTICS | 11       | 9        | 12       | 12       | 12       | 9     | 12       | 4        | 12      |          |
| % SAMP (EXCLUDED)    | 8        | 25       |          |          |          | 25    |          | 66       |         |          |

## 1987 WATER QUALITY DATA REGION 1

173

B.O.W./ SITE: BLYTH BROOK  
 SAMPLE POINT: AT SIDE ROAD, WEST OF BLYTH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FE105

STATION ID: 08-0056-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

|                      |      | LAT: 43 44 56.36 |          | LONG: 081 26 45.19 |          | U T M: 17 0464100.0 4843875.0 4 |          | REGION: 01 |         | DISTANCE: 51.015 |          |
|----------------------|------|------------------|----------|--------------------|----------|---------------------------------|----------|------------|---------|------------------|----------|
| *=INTERIM TEST-NAME: |      | FWSADP           | FGPROJ   | CLIDUR             | CLIDUR   | COND25                          | FCMF     | FSMF       | FWSTRC  | FWTEMP           | NNHTUR   |
|                      |      |                  |          | CHLORIDE           | CHLORIDE | CONDUCT.                        | FECAL    | FECAL      |         |                  | NH3-N    |
|                      |      |                  |          | UNF.REAC           | UNF.REAC | 25C                             | COLIFORM | STREPCUS   |         |                  | TOTAL    |
| SAMPLE               |      | SAMPLE           | PROJECT  | AS CL              | AS CL-   | UMHO/CM                         | MF       | MF         | STREAM  | WATER            | UNF.REAC |
| DATE                 | HR   | DEPT             | SUB-PROJ | MG/L               | MG/L     | AT 25 C                         | CNT      | CNT        | COND.   | TEMP             | MG/L     |
| YYMMDD               | LMT  | NUMBER           | CODE     |                    |          |                                 | /100ML   | /100ML     |         | DEG.C            | AS N     |
| 870105               | 1138 | 37409            | 0101     |                    | 14.000   | 665.0                           | 120      | 56         | 8       | 1.0              | 0.015    |
| 870202               | 1143 | 37425            | 0101     |                    | 11.000   | 600.0                           | 188      | 344        | 4 8     | 1.5              | 0.080    |
| 870303               | 1250 | 37441            | 0101     |                    | 32.000   | 650.0                           | 300      | 444        | 4 8     | 1.5              | 0.120    |
| 870406               | 1300 | 37457            | 0101     |                    | 11.000   | 489.0                           | 160      | 132        |         |                  | 0.010    |
| 870504               | 1143 | 37473            | 0101     |                    | 15.000   | 545.0                           |          |            |         |                  | 0.040    |
| 870601               | 1158 | 37489            | 0101     |                    | 13.500   | 560.0                           | 32       | 8          |         |                  | 0.040    |
| 870706               | 1135 | 37505            | 0101     |                    | 9.500    | 535.0                           | 284      | 336        |         |                  | 0.240    |
| 870804               | 1136 | 37521            | 0101     |                    | 13.500   | 600.0                           | 600>     | 108        |         |                  | 0.100    |
| 870908               | 1115 | 37537            | 0101     | 10.000             |          | 605.0                           | 170      | 24         |         |                  | 0.020    |
| 871005               | 1140 | 37553            | 0101     | 15.760             |          | 635.0                           | 128      | 152        |         |                  | 0.010    |
| 871102               | 1142 | 37569            | 0101     | 15.360             |          | 685.0                           | 128      | 100        | 8       | 11.0             |          |
| 871207               | 1141 | 37585            | 0101     | 13.390             |          | 610.0                           | 472      | 44         |         |                  | 0.136    |
| MAXIMUM              |      | 0.30             |          | 15.760             | 32.000   | 685.0                           | 472      | 444        |         | 11.0             | 0.240    |
| ARITH MEAN           |      | 0.30             |          | 13.627             | 14.937   | 598.2                           | 198      | 159        |         | 3.7              | 0.074    |
| GEOM MEAN            |      |                  |          | 13.418             | 13.918   | 595.6                           |          | 94         |         | 2.2              | 0.045    |
| MINIMUM              |      | 0.30             |          | 10.000             | 9.500    | 489.0                           | 32       | 8          |         | 1.0              | 0.010    |
| STD DEV (GEOM *)     |      |                  |          | 2.631              | 7.139    | 57.6                            |          | 3*         |         | 4.8              | 0.072    |
| # SAMP IN STATISTICS |      | 12               |          | 4                  | 8        | 12                              | 10       | 11         |         | 4                | 11       |
| % SAMP (EXCLUDED)    |      |                  |          |                    |          |                                 | 9        |            |         |                  |          |
| *=INTERIM TEST-NAME: |      | NNO2UR           | NNO3UR   | NNTKUR             | PH       | PP04UR                          | PPUT     | PSAMF      | RSP     | TURB             |          |
|                      |      |                  |          | K'DAHL N           |          |                                 |          | PSEUDOMN   |         |                  |          |
|                      |      | NO2-N            | NO3-N    | TOTAL              |          | P04                             | PHOSPHOR | AERUG.     |         |                  |          |
|                      |      | UNF.REAC         | UNF.REAC | UNF.REAC           |          | UNF.REAC                        | UNF.TOT. | MF         | RESIDUE | TURB'ITY         |          |
|                      |      | MG/L             | MG/L     | MG/L               | PH       | MG/L                            | MG/L     | CNT        | PARTIC. | FTU              |          |
| DATE                 | HR   | AS N             | AS N     | AS N               |          | AS P                            | AS P     | /100ML     | MG/L    |                  |          |
| YYMMDD               | LMT  |                  |          |                    |          |                                 |          |            |         |                  |          |
| 870105               | 1138 | 37409            | 4.700    | 0.500              | 8.04     | 0.005                           | 0.016    | 4<         | 5.0<    | 3.10             |          |
| 870202               | 1143 | 37425            | 0.010    | 0.520              | 7.89     | 0.008                           | 0.022    | 4<         | 5.0<    | 2.80             |          |
| 870303               | 1250 | 37441            | 0.120    | 0.640              | 7.71     | 0.047                           | 0.079    | 4<         | 14.5    | 8.60             |          |
| 870406               | 1300 | 37457            | 0.020    | 0.760              | 7.87     | 0.037                           | 0.070    | 4<         | 13.6    | 10.70            |          |
| 870504               | 1143 | 37473            | 0.040    | 0.670              | 8.31     | 0.004                           | 0.021    |            | 5.0<    | 2.40             |          |
| 870601               | 1158 | 37489            | 0.130    | 0.730              | 8.44     | 0.015                           | 0.050    | 4<         | 5.0<    | 2.50             |          |
| 870706               | 1135 | 37505            | 0.070    | 0.970              | 7.94     | 0.050                           | 0.075    |            | 2.8     | 3.90             |          |
| 870804               | 1136 | 37521            | 0.070    | 1.340              | 8.06     | 0.041                           | 0.072    | 4<         | 6.4     | 4.90             |          |
| 870908               | 1115 | 37537            | 0.190    | 0.810              | 8.04     | 0.023                           | 0.049    | 4<         | 5.0<    | 3.20             |          |
| 871005               | 1140 | 37553            | 0.010<   | 0.660              | 8.28     | 0.012                           | 0.028    | 4<         | 1.9     | 3.10             |          |
| 871102               | 1142 | 37569            | 0.010<   | 0.720              | 8.02     | 0.008                           | 0.110    |            | 5.0<    | 0.90             |          |
| 871207               | 1141 | 37585            | 0.260    | 0.590              | 8.02     | 0.042                           | 0.052    | 4          | 5.0<    | 2.20             |          |

( C O N T D )

B.O.W./ SITE: BLYTH BROOK  
 SAMPLE POINT: AT SIDE ROAD, WEST OF BLYTH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FE105

STATION ID: 08-0056-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 44 56.36 LONG: 081 26 45.19

U T M: 17 0464100.0 4843875.0 4

REGION: 01

DISTANCE: 51.015

| *=INTERIM |      | TEST-NAME:       | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|-----------|------|------------------|----------|----------|----------|------|----------|----------|----------|---------|----------|
|           |      |                  | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR | PSEUDOMN |         |          |
|           |      |                  | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |
| SAMPLE    | DATE | TIME             | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | MF       | PARTIC. | FTU      |
| YYMMDD    | LMT  | NUMBER           | AS N     | AS N     | AS N     |      | AS P     | AS P     | CNT      | MG/L    |          |
|           |      |                  |          |          |          |      |          |          | /100ML   |         |          |
|           |      | MAXIMUM          | 0.260    | 7.300    | 1.340    | 8.44 | 0.050    | 0.110    | 4        | 14.5    | 10.70    |
|           |      | ARITH MEAN       | 0.092    | 4.142    | 0.742    | 8.05 | 0.024    | 0.054    | 4        | 7.8     | 4.02     |
|           |      | GEOM MEAN        |          | 3.573    | 0.716    | 8.05 | 0.017    | 0.046    |          |         | 3.32     |
|           |      | MINIMUM          | 0.010    | 1.200    | 0.500    | 7.71 | 0.004    | 0.016    | 4        | 1.9     | 0.90     |
|           |      | STD DEV (GEOM *) |          | 2.071    | 0.227    | 0.20 | 0.018    | 0.029    |          |         | 2.83     |
| #         | SAMP | IN STATISTICS    | 10       | 12       | 12       | 12   | 12       | 12       | 1        | 5       | 12       |
| %         | SAMP | (EXCLUDED)       | 16       |          |          |      |          |          | 88       | 58      |          |

## 1987 WATER QUALITY DATA REGION 1

175

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: HWY 86 2 MILES N-W OF WINGHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE005

STATION ID: 08-0056-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 53 45.06 LONG: 081 21 15.20 U T M: 17 0471550.0 4860150.0 4 REGION: 01 DISTANCE: 77.246

| *=INTERIM TEST-NAME: |       | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|-------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |       |        |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |       |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |       |        |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                      |       |        |        | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                      |       |        |        | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| SAMPLE DATE          | YMMDD | TIME   | NUMBER | DEPTH    | PROJECT  | SUB-PROJ | CODE     |          |          |          |          |
| YMMDD                | LMT   |        |        | M        |          |          |          |          |          |          |          |
| 870105               | 1423  |        | 37414  | 0.30     | 0101     |          |          |          |          |          | 92       |
| 870202               | 1458  |        | 37430  | 0.30     | 0101     |          |          |          |          |          | 1500>    |
| 870303               | 1522  |        | 37446  | 0.30     | 0101     |          |          |          |          |          | 550      |
| 870406               | 1500  |        | 37462  | 0.30     | 0101     |          |          |          |          |          | 164      |
| 870504               | 1500  |        | 37478  | 0.30     | 0101     |          |          |          |          |          |          |
| 870601               | 1424  |        | 37494  | 0.30     | 0101     |          |          |          |          |          | 8        |
| 870706               | 1408  |        | 37510  | 0.30     | 0101     |          |          |          |          |          | 72       |
| 870804               | 1451  |        | 37526  | 0.30     | 0101     |          |          |          |          |          | 240      |
| 870908               | 1443  |        | 37542  | 0.30     | 0101     |          |          |          |          |          | 4        |
| 871005               | 1450  |        | 37558  | 0.30     | 0101     |          |          |          |          |          | 44       |
| 871102               | 1451  |        | 37574  | 0.30     | 0101     |          |          |          |          |          | 116      |
| 871207               | 1432  |        | 37590  | 0.30     | 0101     |          |          |          |          |          | 364      |
| MAXIMUM              |       |        |        | 0.30     |          |          |          |          |          |          | 550      |
| ARITH MEAN           |       |        |        | 0.30     |          |          |          |          |          |          | 165      |
| GEOM MEAN            |       |        |        |          |          |          |          |          |          |          | 10.3     |
| MINIMUM              |       |        |        | 0.30     |          |          |          |          |          |          | 4        |
| STD DEV (GEOM *)     |       |        |        |          |          |          |          |          |          |          | 2.3      |
| # SAMP IN STATISTICS |       |        |        | 12       |          |          |          |          |          |          | 10       |
| % SAMP (EXCLUDED)    |       |        |        |          |          |          |          |          |          |          | 9        |

| *=INTERIM TEST-NAME: |       | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   |
|----------------------|-------|----------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                      |       | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                      |       | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
|                      |       | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
|                      |       | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
|                      |       | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| SAMPLE DATE          | YMMDD | NUMBER   |        |        |        |          |          |          |          |          |      |
| YMMDD                | LMT   |          |        |        |        |          |          |          |          |          |      |
| 870105               | 1423  | 20       | 4.600  | 8      | 1.0    | 0.020    | 0.010    | 3.600    | 0.570    | 0.003<   | 8.26 |
| 870202               | 1458  | 36       | 3.400  | 4 8    | 2.0    | 0.135    | 0.010    | 3.600    | 0.680    | 0.003<   | 7.91 |
| 870303               | 1522  | 168      | 7.000  | 4 8    | 1.0    | 0.235    | 0.130    | 3.900    | 0.710    | 0.003<   | 7.93 |
| 870406               | 1500  | 152      | 42.100 |        |        | 0.070    | 0.030    | 4.800    | 0.770    |          | 8.00 |
| 870504               | 1500  |          | 2.630  |        |        | 0.030    | 0.020    | 2.800    | 0.640    |          | 8.33 |
| 870601               | 1424  | 20       | 1.320  |        | 29.0   | 0.040    | 0.020    | 0.600    | 2.020    | 0.003<   | 8.45 |
| 870706               | 1408  | 76       | 1.380  |        |        | 0.055    | 0.010    | 0.700    | 0.740    |          | 8.34 |
| 870804               | 1451  | 12       | 1.700  | 8      | 37.0   | 0.075    | 0.050    | 3.400    | 1.220    | 0.003<   | 8.02 |
| 870908               | 1443  | 4        | 0.797  | 8      | 26.0   | 0.075    | 0.010    | 0.200    | 1.050    | 0.003<   | 8.68 |
| 871005               | 1450  | 4        | 0.968  | 8      | 17.0   | 0.015    | 0.010<   | 0.600    | 0.640    | 0.003<   | 8.61 |
| 871102               | 1451  | 44       | 3.240  | 8      | 13.0   |          |          |          |          |          |      |
| 871207               | 1432  | 124      | 6.770  |        |        |          |          |          |          |          |      |

( C O N T D )

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: HWY 86 2 MILES N-W OF WINGHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE005

STATION ID: 08-0056-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 53 45.06 LONG: 081 21 15.20 U T M: 17 0471550.0 4860150.0 4 REGION: 01 DISTANCE: 77.246

| *=INTERIM TEST-NAME:     |              | FSMF<br>FECAL<br>STREPCUS | FWFLOW<br>STREAM<br>FLOW | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|--------------------------|--------------|---------------------------|--------------------------|---------------------------|----------------------------------|--|---|---|---|---|------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>NUMBER          | CNT<br>/100ML            | M3<br>/S                  |                                  |  |   |   |   |   |      |
| MAXIMUM                  |              | 168                       | 42.100                   |                           | 37.0                             | 0.235  | 0.130                                       | 4.800                                       | 2.020   |   | 8.68 |
| ARITH MEAN               |              | 60                        | 6.325                    |                           | 15.7                             | 0.075  | 0.032                                       | 2.420                                       | 0.904   |   | 8.25 |
| GEOM MEAN                |              | 31                        | 3.045                    |                           | 7.7                              | 0.055  |   | 1.609                                       | 0.836   |   | 8.25 |
| MINIMUM                  |              | 4                         | 0.797                    |                           | 1.0                              | 0.015  | 0.010                                       | 0.200                                       | 0.570   |   | 7.91 |
| STD DEV (GEOM *)         |              | 4*                        | 11.463                   |                           | 14.0                             | 0.066  |   | 1.708                                       | 0.441   |   | 0.28 |
| # SAMP IN STATISTICS     |              | 11                        | 12                       |                           | 8                                | 10   | 9   | 10  | 10  |   | 10   |
| % SAMP (EXCLUDED)        |              |                           |                          |                           |                                  |  | 10  |   |   |   |      |

| *=INTERIM TEST-NAME:     |              | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|--------------|---|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>NUMBER                          |  |  |                                   |                         |   |
| 870105                   | 1423         | 37414                                     | 0.002  | 0.017  | 4<                                | 5.0<                    | 2.60                                      |
| 870202                   | 1458         | 37430                                     | 0.003  | 0.020  | 4<                                | 5.0<                    | 2.10                                      |
| 870303                   | 1522         | 37446                                     | 0.030  | 0.062  | 4<                                | 8.8                     | 6.10                                      |
| 870406                   | 1500         | 37462                                     | 0.038  | 0.113  | 4                                 | 12.0                    | 13.80                                     |
| 870504                   | 1500         | 37478                                     | 0.001<                                       | 0.019  |                                   | 5.0<                    | 1.10                                      |
| 870601                   | 1424         | 37494                                     | 0.001<                                       | 0.164  | 4<                                | 2.9                     | 12.90                                     |
| 870706                   | 1408         | 37510                                     | 0.005  | 0.032  | 8                                 | 5.3                     | 2.80                                      |
| 870804                   | 1451         | 37526                                     | 0.096  | 0.144  | 4                                 | 10.4                    | 4.50                                      |
| 870908                   | 1443         | 37542                                     | 0.012  | 0.050  | 4<                                | 5.0                     | 6.50                                      |
| 871005                   | 1450         | 37558                                     | 0.011  | 0.018  | 4<                                | 1.5                     | 2.00                                      |
| 871102                   | 1451         | 37574                                     |  |  | 4<                                |                         |   |
| 871207                   | 1432         | 37590                                     |  |  | 4<                                |                         |   |
| MAXIMUM                  |              | 0.096                                     | 0.164  | 8  | 12.0                              | 13.80                   | 0.095                                     |
| ARITH MEAN               |              | 0.025                                     | 0.064  | 5  | 6.6                               | 5.44                    | 0.027                                     |
| GEOM MEAN                |              |   | 0.045  |  |                                   | 4.01                    | 0.008                                     |
| MINIMUM                  |              | 0.002                                     | 0.017  | 4  | 1.5                               | 1.10                    | 0.002                                     |
| STD DEV (GEOM *)         |              |   | 0.056  |  |                                   | 4.53                    | 0.042                                     |
| # SAMP IN STATISTICS     |              | 8   | 10   | 3  | 7                                 | 10                      | 7   |
| % SAMP (EXCLUDED)        |              | 20  |  | 72   | 30                                |                         |   |



B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: ONE MILE NORTH EAST OF WROXETER  
 STATION TYPE: RIVER

STATION ID: 08-0056-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 52 06.96 LONG: 081 09 35.71 U T M: 17 0487150.0 4857075.0 4 REGION: 01 DISTANCE: 100.420

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC  | FWTEMP   | NNHTUR   |
|----------------------|------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|
|                      |      |          |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |         |          | NH3-N    |
| SAMPLE               |      | SAMPLE   | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |         | WATER    | TOTAL    |
| DATE                 | HR   | DEPTH    | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM  | TEMP     | UNF.REAC |
| YYMMDD               | LMT  | NUMBER   | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.   | DEG.C    | MG/L     |
| 870105               | 0823 | 37400    | 0101     |          | 15.500   | 660.0    | 32       | 4        | 8       | 1.0      | 0.020    |
| 870202               | 0815 | 37416    | 0101     |          | 13.500   | 625.0    | 28       | 28       | 4 8     | 1.5      | 0.115    |
| 870303               | 0820 | 37432    | 0101     |          | 19.500   | 610.0    | 360      | 580      | 4 8     | 1.5      | 0.265    |
| 870406               | 0825 | 37448    | 0101     |          | 11.000   | 477.0    | 260      | 164      |         |          | 0.070    |
| 870504               | 0815 | 37464    | 0101     |          | 14.000   | 535.0    |          |          |         |          | 0.035    |
| 870601               | 0820 | 37480    | 0101     |          | 15.500   | 535.0    | 28       | 4        |         |          | 0.050    |
| 870706               | 0811 | 37496    | 0101     |          | 16.500   | 465.0    | 16       | 4<       |         |          | 0.060    |
| 870804               | 0811 | 37512    | 0101     |          | 17.000   | 480.0    | 148      | 8        |         |          | 0.045    |
| 870908               | 0830 | 37528    | 0101     | 17.500   |          | 530.0    | 60       | 4<       |         |          | 0.040    |
| 871005               | 0812 | 37544    | 0101     | 19.790   |          | 540.0    | 12       | 28       |         |          | 0.020    |
| 871102               | 0820 | 37560    | 0101     | 18.230   |          | 660.0    | 16       | 40       | 8       | 11.0     | 0.005<   |
| 871207               | 0822 | 37576    | 0101     |          |          |          | 28       | 28       |         |          |          |
| MAXIMUM              |      | 0.30     |          | 19.790   | 19.500   | 660.0    | 360      | 580      |         | 11.0     | 0.265    |
| ARITH MEAN           |      | 0.30     |          | 18.507   | 15.312   | 556.1    | 90       | 98       |         | 3.7      | 0.072    |
| GEOM MEAN            |      |          |          | 18.482   | 15.120   | 551.9    | 46       |          |         | 2.2      |          |
| MINIMUM              |      | 0.30     |          | 17.500   | 11.000   | 465.0    | 12       | 4        |         | 1.0      | 0.020    |
| STD DEV (GEOM *)     |      |          |          | 1.170    | 2.549    | 71.7     | 3*       |          |         | 4.8      |          |
| # SAMP IN STATISTICS |      | 12       |          | 3        | 8        | 11       | 11       | 9        |         | 4        | 10       |
| % SAMP (EXCLUDED)    |      |          |          |          |          |          |          | 18       |         |          | 9        |
| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH       | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |          |
|                      |      | N02-N    | N03-N    | K'DAHL N |          | P04      | PHOSPHOR | PSEUDOMN |         |          |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |          | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |          |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH       | MG/L     | MG/L     | MF       | PARTIC. | FTU      |          |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |          | AS P     | AS P     | CNT      | MG/L    |          |          |
| 870105               | 0823 | 37400    | 3.900    | 0.530    | 8.24     | 0.001<   | 0.012    | 4<       | 5.0<    | 2.40     |          |
| 870202               | 0815 | 37416    | 3.900    | 0.610    | 7.91     | 0.007    | 0.017    | 4<       | 5.0<    | 2.40     |          |
| 870303               | 0820 | 37432    | 3.800    | 0.700    | 7.86     | 0.039    | 0.066    | 4<       | 6.3     | 6.80     |          |
| 870406               | 0825 | 37448    | 4.200    | 0.780    | 7.96     | 0.035    | 0.076    | 4        | 12.7    | 10.10    |          |
| 870504               | 0815 | 37464    | 3.100    | 0.720    | 8.14     | 0.001    | 0.021    |          | 5.0<    | 3.60     |          |
| 870601               | 0820 | 37480    | 1.400    | 0.670    | 8.21     | 0.003    | 0.031    | 4<       | 5.0<    | 3.40     |          |
| 870706               | 0811 | 37496    | 0.500    | 0.760    | 8.15     | 0.008    | 0.034    | 4<       | 5.0<    | 3.40     |          |
| 870804               | 0811 | 37512    | 0.300    | 0.700    | 7.87     | 0.004    | 0.040    | 4        | 27.3    | 7.80     |          |
| 870908               | 0830 | 37528    | 0.500    | 0.530    | 8.21     | 0.003    | 0.022    | 4<       | 5.7     | 4.40     |          |
| 871005               | 0812 | 37544    | 0.600    | 0.560    | 8.17     | 0.006    | 0.018    | 4<       | 2.9     | 2.60     |          |
| 871102               | 0820 | 37560    | 4.200    | 0.670    | 7.93     | 0.003    | 0.014    | 4<       | 5.0<    | 2.00     |          |
| 871207               | 0822 | 37576    |          |          |          |          |          | 4<       |         |          |          |

( C O N T D )

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: ONE MILE NORTH EAST OF WROXETER  
 STATION TYPE: RIVER

STATION ID: 08-0056-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 52 06.96 LONG: 081 09 35.71

U T M: 17 0487150.0 4857075.0 4

REGION: 01

DISTANCE: 100.420

| *=INTERIM TEST-NAME: |      | NNO2UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|----------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |         |          |
|                      |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |
| SAMPLE               |      | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | PARTIC. | FTU      |
| DATE                 | HOUR |          |          |          | PH   |          |          | CNT      | MG/L    |          |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | /100ML   |         |          |
| MAXIMUM              |      | 0.130    | 4.200    | 0.780    | 8.24 | 0.039    | 0.076    | 4        | 27.3    | 10.10    |
| ARITH MEAN           |      | 0.036    | 2.400    | 0.657    | 8.06 | 0.011    | 0.032    | 4        | 11.0    | 4.45     |
| GEOM MEAN            |      |          | 1.618    | 0.652    | 8.06 |          | 0.027    |          |         | 3.87     |
| MINIMUM              |      | 0.010    | 0.300    | 0.530    | 7.86 | 0.001    | 0.012    | 4        | 2.9     | 2.00     |
| STD DEV (GEOM *)     |      |          | 1.712    | 0.088    | 0.15 |          | 0.021    |          |         | 2.63     |
| # SAMP IN STATISTICS |      | 9        | 11       | 11       | 11   | 10       | 11       | 2        | 5       | 11       |
| % SAMP (EXCLUDED)    |      | 18       |          |          |      | 9        |          | 81       | 54      |          |

## 179

STATION ID: 08-0056-006-02

STORET CODE: 02  
002  
0530

**DISTANCE: 131.963**

|                      |      |       |       |         |        |        |       |      |        |
|----------------------|------|-------|-------|---------|--------|--------|-------|------|--------|
| MAXIMUM              | 0.30 | 380.3 | 16.06 | 125.000 | 82.000 | 1220.0 | 0.008 | 15.0 | 160000 |
| ARITH MEAN           | 0.30 | 327.1 | 7.10  | 105.913 | 53.937 | 912.3  | 0.005 | 8.9  | 63300  |
| GEOM MEAN            |      | 323.8 |       | 103.312 | 50.263 | 897.0  | 0.004 | 7.8  |        |
| MINIMUM              | 0.30 | 218.0 | 1.13  | 74.790  | 22.500 | 580.0  | 0.002 | 3.0  | 2800   |
| STD DEV (GEOM *)     |      | 44.7  |       | 27.183  | 19.746 | 171.1  | 0.002 | 4.6  |        |
| # SAMP IN STATISTICS | 12   | 10    | 10    | 3       | 8      | 11     | 7     | 8    | 6      |
| % SAMP (EXCLUDED)    |      |       | 9     |         |        |        |       |      | 45     |

[illegible]

( C O N T D )

B.O.W./ SITE: LITTLE MAITLAND RIVER  
 SAMPLE POINT: HWY.23 3 MILES S-W OF PALMERSTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 48 53.16 LONG: 080 53 14.46 U T M: 17 0509060.0 4851090.0 4 REGION: 01 DISTANCE: 131.963

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |      |   |
|                          |             | MAXIMUM  | 9000                      | 30.0                             | 15.500   | 0.540                                       | 5.500                                       | 18.600  |   | 7.75 | 3.800                                     |
|                          |             | ARITH MEAN                                       | 3189                      | 12.2                             | 4.956  | 0.125                                       | 2.260                                       | 7.230   |   | 7.63 | 1.439                                     |
|                          |             | GEOM MEAN  |                           | 6.6                              | 1.930  | 0.078                                       |   | 4.748   |   | 7.63 | 0.770                                     |
|                          |             | MINIMUM  | 210                       | 1.0                              | 0.112  | 0.010                                       | 0.200                                       | 0.930   |   | 7.52 | 0.041                                     |
|                          |             | STD DEV (GEOM *)                                 |                           | 10.8                             | 5.022  | 0.146                                       |   | 6.113   |   | 0.09 | 1.310                                     |
|                          |             | # SAMP IN STATISTICS                             | 9                         | 8                                | 11   | 11  | 10  | 8   |   | 11   | 11  |
|                          |             | % SAMP (EXCLUDED)                                | 18                        |                                  |  |   | 9   |   |   |      |   |

| *=INTERIM TEST-NAME:     |             | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                             |  |                                   |                         |   |
| 870105                   | 0902        | 37402  | 0.400  | 220C                              | 2.6                     | 2.20                                      |
| 870202                   | 0902        | 37418  | 0.710  | 328                               | 5.0<                    | 2.60                                      |
| 870303                   | 0912        | 37434  | 0.540  | 52C                               | 8.3                     | 5.20                                      |
| 870406                   | 0915        | 37450  | 0.131  | 36                                | 9.6                     | 6.30                                      |
| 870504                   | 0855        | 37466  | 0.905  |                                   | 5.0<                    | 3.40                                      |
| 870601                   | 0900        | 37482  | 2.050  | 576                               | 2.7                     | 4.20                                      |
| 870706                   | 0847        | 37498  | 10.800   | 252                               | 15.1                    | 7.60                                      |
| 870804                   | 0852        | 37514  | 3.100  | 156C                              | 6.3                     | 4.40                                      |
| 870908                   | 0905        | 37530  | 4.200  | 280                               | 6.8                     | 5.40                                      |
| 871005                   | 0856        | 37546  | 3.300  | 520                               | 1.9                     | 5.00                                      |
| 871102                   | 0900        | 37562  | 1.060  | 150C                              | 5.0<                    | 1.73                                      |
|                          |             | MAXIMUM                                      | 10.800   | 576                               | 15.1                    | 7.60                                      |
|                          |             | ARITH MEAN                                   | 2.472  | 257                               | 6.7                     | 4.37                                      |
|                          |             | GEOM MEAN                                    | 1.303  | 192                               |                         | 4.00                                      |
|                          |             | MINIMUM                                      | 0.131  | 36                                | 1.9                     | 1.73                                      |
|                          |             | STD DEV (GEOM *)                             | 3.077  | 2*                                |                         | 1.79                                      |
|                          |             | # SAMP IN STATISTICS                         | 11   | 10                                | 8                       | 11  |
|                          |             | % SAMP (EXCLUDED)                            |  |                                   | 27                      | 7   |

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HAMLET OF TROWBRIDGE  
 STATION TYPE: RIVER

STATION ID: 08-0056-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 50.60 LONG: 081 01 41.91

U T M: 17 0497720.0 4841750.0 4

REGION: 01

DISTANCE: 140.975

| *=INTERIM |      | TEST-NAME:           | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT       | DO       | FCMF     |
|-----------|------|----------------------|--------|----------|----------|----------|----------|----------|----------|------------|----------|----------|
|           |      |                      |        |          |          | BOD      |          |          |          |            |          | FECAL    |
|           |      |                      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER     | DISOLVED | COLIFORM |
|           |      |                      |        |          |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT.   | OXYGEN   | MF       |
| SAMPLE    | DATE | TIME                 | SAMPLE | PROJECT  | TOTAL    | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L       | MG/L     | CNT      |
| YYMMDD    | LMT  | NUMBER               | DEPTH  | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU      | AS O     | /100ML   |
|           |      |                      | M      | CODE     |          |          |          |          |          |            |          |          |
| 870105    | 0957 | 37404                | 0.30   | 0101     | 338.0    | 0.31     |          | 20.500   | 740.0    | 0.001      | 10.0     | 92       |
| 870202    | 1000 | 37420                | 0.30   | 0101     | 307.0    | 1.89     |          | 48.500   | 780.0    | 0.001 <    | 10.0     | 448      |
| 870303    | 1025 | 37436                | 0.30   | 0101     | 268.0    | 2.64     |          | 44.000   | 715.0    | 0.0020     | 10.0     | 600>     |
| 870406    | 1010 | 37452                | 0.30   | 0101     | 195.0    | 1.93     |          | 43.000   | 495.0    |            |          | 270      |
| 870504    | 0952 | 37468                | 0.30   | 0101     | 204.0    | 1.62     |          | 23.000   | 474.0    | NO DATA BT |          |          |
| 870601    | 1010 | 37484                | 0.30   | 0101     | 190.0    | 1.61     |          | 49.000   | 525.0    | 0.002      | 12.0     | 36       |
| 870706    | 0934 | 37500                | 0.30   | 0101     | 213.0    | 1.40     |          | 87.500   | 730.0    |            |          | 56       |
| 870804    | 0951 | 37516                | 0.30   | 0101     | 258.0    | 1.05     |          | 33.000   | 650.0    | 0.003      | 7.5      | 172      |
| 870908    | 0938 | 37532                | 0.30   | 0101     |          | 1.54     | 100.000  |          | 945.0    | 0.003      | 5.5      | 24       |
| 871005    | 0952 | 37548                | 0.30   | 0101     | 248.9    | 0.85     | 95.360   |          | 890.0    | 0.002      | 3.0      | 70AID    |
| 871102    | 0957 | 37564                | 0.30   | 0101     | 295.9    | 1.90     | 81.770   |          | 970.0    |            | 4.0      | 44       |
| 871207    | 0958 | 37580                | 0.30   | 0101     |          |          |          |          |          |            |          | 140      |
|           |      | MAXIMUM              | 0.30   |          | 338.0    | 2.64     | 100.000  | 87.500   | 970.0    | 0.003      | 12.0     | 448      |
|           |      | ARITH MEAN           | 0.30   |          | 251.8    | 1.52     | 92.377   | 43.562   | 719.5    | 0.002      | 7.7      | 135      |
|           |      | GEOM MEAN            |        |          | 247.2    | 1.36     | 92.042   | 39.660   | 699.7    |            | 7.0      |          |
|           |      | MINIMUM              | 0.30   |          | 190.0    | 0.31     | 81.770   | 20.500   | 474.0    | 0.001      | 3.0      | 24       |
|           |      | STD DEV (GEOM *)     |        |          | 51.2     | 0.62     | 9.474    | 20.878   | 173.3    |            | 3.3      |          |
|           |      | # SAMP IN STATISTICS | 12     |          | 10       | 11       | 3        | 8        | 11       | 6          | 8        | 10       |
|           |      | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          | 14         |          | 9        |

| *=INTERIM |      | TEST-NAME: | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT       | PH   | PP04UR   |
|-----------|------|------------|----------|--------|--------|----------|----------|----------|----------|------------|------|----------|
|           |      |            | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |            |      |          |
|           |      |            | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD       |      | PO4      |
|           |      |            | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT.   |      | UNF.REAC |
| SAMPLE    | DATE | TIME       | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L       | PH   | MG/L     |
| YYMMDD    | LMT  | NUMBER     | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB      |      | AS P     |
| 870105    | 0957 | 37404      | 4<       | 8 4    | 1.0    | 0.125    | 0.010    | 3.500    | 0.620    | 0.003<     | 8.10 | 0.025    |
| 870202    | 1000 | 37420      | 316      | 4 8    | 1.5    | 1.400    | 0.010<   | 3.000    | 1.950    | 0.003<     | 7.78 | 0.036    |
| 870303    | 1025 | 37436      | 600>     | 4 8    | 1.5    | 0.181    | 0.220    | 3.400    | 0.910    | 0.004      | 7.68 | 0.109    |
| 870406    | 1010 | 37452      | 310      |        |        | 0.265    | 0.030    | 5.000    | 1.140    |            | 7.92 | 0.071    |
| 870504    | 0952 | 37468      |          |        |        | 0.020    | 0.030    | 1.400    | 0.730    | NO DATA BT | 8.12 | 0.008    |
| 870601    | 1010 | 37484      | 4        | 5 7    | 26.0   | 0.040    | 0.010    | 0.100    | 1.020    | 0.003<     | 8.55 | 0.105    |
| 870706    | 0934 | 37500      | 12       |        |        | 0.060    | 0.010<   | 0.100    | 1.150    |            | 8.28 | 0.085    |
| 870804    | 0951 | 37516      | 4<       | 8      | 25.0   | 0.095    | 0.080    | 3.000    | 1.240    | 0.003<     | 8.02 | 0.123    |
| 870908    | 0938 | 37532      | 4<       | 8      | 22.0   | 0.091    | 0.020    | 0.100<   | 1.180    | 0.003<     | 8.15 | 0.110    |
| 871005    | 0952 | 37548      | 16       | 8      | 14.0   | 0.005<   | 0.010<   | 0.100<   | 0.980    | 0.003<     | 8.35 | 0.014    |
| 871102    | 0957 | 37564      | 12       | 8      | 11.0   | 0.112    | 0.050    | 3.800    | 3.000    |            | 8.01 | 0.093    |
| 871207    | 0958 | 37580      | 36       |        |        |          |          |          |          |            |      |          |

( C O N T D )

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HAMLET OF TROWBRIDGE  
 STATION TYPE: RIVER

STATION ID: 08-0056-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 50.60 LONG: 081 01 41.91 U T M: 17 0497720.0 4841750.0 4 REGION: 01 DISTANCE: 140.975

| *=INTERIM TEST-NAME: |      | FMSF                 | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH    | PP04UR   |       |
|----------------------|------|----------------------|--------|--------|----------|----------|----------|----------|----------|-------|----------|-------|
|                      |      | FECAL                |        |        | NH3-N    |          |          | K'DAHL N |          |       |          |       |
|                      |      | STREPCUS             |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |       | P04      |       |
| SAMPLE               |      | MF                   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |       | UNF.REAC |       |
| DATE                 | HOUR | CNT                  | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     |       |
| YYMMDD               | LMT  | /100ML               | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH    | AS P     |       |
|                      |      | MAXIMUM              |        | 316    | 26.0     | 1.400    | 0.220    | 5.000    | 3.000    | 0.004 | 8.55     | 0.123 |
|                      |      | ARITH MEAN           |        | 101    | 12.7     | 0.239    | 0.056    | 2.589    | 1.265    | 0.004 | 8.09     | 0.071 |
|                      |      | GEOM MEAN            |        |        | 6.9      |          |          |          | 1.149    |       | 8.08     | 0.053 |
|                      |      | MINIMUM              |        | 4      | 1.0      | 0.020    | 0.010    | 0.100    | 0.620    | 0.004 | 7.68     | 0.008 |
|                      |      | STD DEV (GEOM *)     |        |        | 10.7     |          |          |          | 0.670    |       | 0.25     | 0.043 |
|                      |      | # SAMP IN STATISTICS |        | 7      | 8        | 10       | 8        | 9        | 11       | 1     | 11       | 11    |
|                      |      | % SAMP (EXCLUDED)    |        | 36     | 9        | 27       | 18       |          | 85       |       |          |       |

| *=INTERIM TEST-NAME: |      | PPUT                 | PSAMF    | RSP     | TURB     | ZNUT     |            |
|----------------------|------|----------------------|----------|---------|----------|----------|------------|
|                      |      | PHOSPHOR             | PSEUDOMN |         |          |          |            |
|                      |      | UNF.TOT.             | AERUG.   | RESIDUE |          | ZINC     |            |
| SAMPLE               |      | MG/L                 | MF       | PARTIC. | TURB'ITY | UNF.TOT. |            |
| DATE                 | HOUR | CNT                  |          | MG/L    | FTU      | MG/L     |            |
| YYMMDD               | LMT  | AS P                 | /100ML   |         |          | AS ZN    |            |
| 870105               | 0957 | 37404                | 0.040    | 4<      | 5.0<     | 1.60     | 0.006      |
| 870202               | 1000 | 37420                | 0.096    | 4<      | 5.0<     | 1.44     | 0.008      |
| 870303               | 1025 | 37436                | 0.146    | 4       | 5.0<     | 3.30     | 0.008      |
| 870406               | 1010 | 37452                | 0.140    | 4<      | 18.9     | 18.40    |            |
| 870504               | 0952 | 37468                | 0.039    |         | 5.0<     | 2.00     | NO DATA BT |
| 870601               | 1010 | 37484                | 0.143    | 4<      | 5.0<     | 2.40     | 0.002      |
| 870706               | 0934 | 37500                | 0.121    | 4<      | 5.0<     | 1.90     |            |
| 870804               | 0951 | 37516                | 0.174    | 208     | 5.0<     | 4.00     | 0.002      |
| 870908               | 0938 | 37532                | 0.166    | 4<      | 2.7      | 2.30     | 0.095      |
| 871005               | 0952 | 37548                | 0.056    | 4<      | 1.9      | 1.80     | 0.083      |
| 871102               | 0957 | 37564                | 0.245    | 4<      | 5.0<     | 1.40     |            |
| 871207               | 0958 | 37580                |          | 4<      |          |          |            |
|                      |      | MAXIMUM              | 0.245    | 208     | 18.9     | 18.40    | 0.095      |
|                      |      | ARITH MEAN           | 0.124    | 106     | 7.8      | 3.69     | 0.029      |
|                      |      | GEOM MEAN            | 0.107    |         |          | 2.55     | 0.010      |
|                      |      | MINIMUM              | 0.039    | 4       | 1.9      | 1.40     | 0.002      |
|                      |      | STD DEV (GEOM *)     | 0.063    |         |          | 4.95     | 0.041      |
|                      |      | # SAMP IN STATISTICS | 11       | 2       | 3        | 11       | 7          |
|                      |      | % SAMP (EXCLUDED)    |          | 81      | 72       |          |            |

B.O.W./ SITE: DRAINAGE DITCH  
 SAMPLE POINT: AT SIDE RD.3-4 1MI.WEST OF MILVERTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 34 24.11 LONG: 080 56 34.92 U T M: 17 0504600.0 4824275.0 4 REGION: 01 DISTANCE: 153.688

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5       | CLIDUR    | CLIDUR    | COND25   | CUUT      | DO       | FCMF     |
|----------------------|------|--------|--------|----------|------------|-----------|-----------|----------|-----------|----------|----------|
|                      |      |        |        | ALK      | BOD        | CHLORIDE  | CHLORIDE  | CONDUCT. | COPPER    | DISOLVED | FECAL    |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | TOT. 5 DAY | UNF. REAC | UNF. REAC | 25C      | UNF. TOT. | OXYGEN   | COLIFORM |
| YYMMDD               | HOUR | NUMBER | M      | SUB-PROJ | MG/L       | MG/L      | MG/L      | UMHO/CM  | MG/L      | MG/L     | MF       |
| YYMMDD               | LMT  | NUMBER | M      | CODE     | AS CAC03   | AS O      | AS CL     | AT 25 C  | AS CU     | AS O     | CNT      |
|                      |      |        |        |          |            |           |           |          |           |          | /100ML   |
| 870105               | 1025 | 37405  | 0.30   | 0101     | 354.0      | 2.56      | 82.000    | 960.0    | 0.001     | 12.0     | 600>     |
| 870202               | 1035 | 37421  | 0.30   | 0101     | 346.0      | 9.64      | 45.500    | 2090.0   | 0.003     | 9.5      | 1500>    |
| 870303               | 1110 | 37437  | 0.30   | 0101     | 262.0      | 3.32      | 97.500    | 935.0    | 0.002     | 13.5     | 510      |
| 870406               | 1035 | 37453  | 0.30   | 0101     | 247.0      | 0.94      | 14.500    | 710.0    |           |          | 470      |
| 870504               | 1018 | 37469  | 0.30   | 0101     | 301.0      | 1.88      | 125.000   | 1000.0   | 0.003     |          |          |
| 870601               | 1040 | 37485  | 0.30   | 0101     | 305.0      | 7.08      | 165.000   | 1180.0   | 0.004     | 10.0     | 100      |
| 870706               | 1005 | 37501  | 0.30   | 0101     | 234.0      | 3.10      | 220.000   | 1200.0   |           |          | 72       |
| 870804               | 1019 | 37517  | 0.30   | 0101     | 329.0      | 14.60     | 55.500    | 870.0    | 0.004     | 9.0      | 1190     |
| 870908               | 0938 | 37533  | 0.30   | 0101     |            | 3.98      | 225.000   | 1540.0   | 0.005     | 8.0      | 560      |
| 871005               | 1022 | 37549  | 0.30   | 0101     | 323.1      | 2.64      | 103.400   | 1000.0   | 0.005     | 8.0      | 630      |
| 871102               | 1024 | 37565  | 0.30   | 0101     | 288.2      | 1.12      | 28.990    | 740.0    |           | 7.0      | 1500>    |
| 871207               | 1026 | 37581  | 0.30   | 0101     | 256.0      | 4.68      | 77.720    | 835.0    |           |          | 100      |
| MAXIMUM              |      |        | 0.30   |          | 354.0      | 14.60     | 225.000   | 2090.0   | 0.005     | 13.5     | 1190     |
| ARITH MEAN           |      |        | 0.30   |          | 295.0      | 4.63      | 108.777   | 100.625  | 0.003     | 9.6      | 454      |
| GEOM MEAN            |      |        |        |          | 292.4      | 3.42      | 85.089    | 77.699   | 0.003     | 9.4      |          |
| MINIMUM              |      |        | 0.30   |          | 234.0      | 0.94      | 28.990    | 710.0    | 0.001     | 7.0      | 72       |
| STD DEV (GEOM *)     |      |        |        |          | 41.0       | 4.01      | 83.401    | 67.441   | 0.001     | 2.2      |          |
| # SAMP IN STATISTICS |      |        | 12     |          | 11         | 12        | 4         | 8        | 8         | 8        | 8        |
| % SAMP (EXCLUDED)    |      |        |        |          |            |           |           |          |           |          | 27       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR    | NN02UR    | NN03UR    | NNTKUR    | PBUT      | PH     | PP04UR    |
|----------------------|------|----------|--------|--------|-----------|-----------|-----------|-----------|-----------|--------|-----------|
|                      |      | FECAL    |        |        | NH3-N     |           |           | K'DAHL N  |           |        |           |
|                      |      | STREPCUS |        |        | TOTAL     | N02-N     | N03-N     | TOTAL     | LEAD      |        | P04       |
| SAMPLE               | DATE | DATE     | COND.  | WATER  | UNF. REAC | UNF. REAC | UNF. REAC | UNF. REAC | UNF. TOT. |        | UNF. REAC |
| YYMMDD               | HOUR | NUMBER   |        | TEMP   | MG/L      | MG/L      | MG/L      | MG/L      | MG/L      |        | MG/L      |
| YYMMDD               | LMT  | NUMBER   |        | DEG.C  | AS N      | AS N      | AS N      | AS N      | AS PB     | PH     | AS P      |
| 870105               | 1025 | 37405    | 308    | 8      | 1.0       | 0.130     | 0.020     | 5.200     | 0.770     | 0.003< | 0.146     |
| 870202               | 1035 | 37421    | 600>   | 5 8    | 1.0       | 3.200     | 0.110     | 4.100     | 6.100     | 0.003< | 0.188     |
| 870303               | 1110 | 37437    | 2100   | 5 8    | 2.0       | 0.700     | 0.170     | 4.400     | 1.040     | 0.006  | 0.308     |
| 870406               | 1035 | 37453    | 350    |        |           | 0.185     | 0.030     | 7.000     | 0.880     |        | 0.308     |
| 870504               | 1018 | 37469    |        |        |           | 0.005<    | 0.050     | 4.300     | 0.740     | 0.003< | 0.068     |
| 870601               | 1040 | 37485    | 44     | 5      | 25.0      | 0.390     | 0.150     | 2.400     | 2.400     | 0.003< | 1.350     |
| 870706               | 1005 | 37501    | 32     |        |           | 0.200     | 0.060     | 0.200     | 1.680     |        | 2.450     |
| 870804               | 1019 | 37517    | 600>   | 8      | 23.0      | 0.060     | 0.070     | 5.800     | 0.650     | 0.003< | 0.243     |
| 870908               | 0938 | 37533    | 110    | 8      | 22.0      |           | 0.100     | 0.300     | 1.580     | 0.003< | 2.500     |
| 871005               | 1022 | 37549    | 2600   | 8      | 12.0      | 0.435     | 0.090     | 1.900     | 1.650     | 0.005  | 0.359     |
| 871102               | 1024 | 37565    | 40AID  | 8      | 13.0      | 0.025     | 0.010<    | 0.400     | 1.350     |        | 0.006     |
| 871207               | 1026 | 37581    | 200AID |        |           | 0.001<    | 0.270     | 6.700     | 2.340     |        | 0.131     |

( C O N T D )

B.O.W./ SITE: DRAINAGE DITCH  
 SAMPLE POINT: AT SIDE RD.3-4 1MI.WEST OF MILVERTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 34 24.11 LONG: 080 56 34.92 U T M: 17 0504600.0 4824275.0 4 REGION: 01 DISTANCE: 153.688

| *=-INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH<br>PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|-----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----------|---|
| MAXIMUM               |  | 2600   |                           | 25.0                             | 3.200  | 0.270                                       | 7.000                                       | 6.100   | 0.006                                     | 8.39     | 2.500                                     |
| ARITH MEAN            |  | 643  |                           | 12.4                             | 0.592  | 0.102                                       | 3.558                                       | 1.765   | 0.005                                     | 7.95     | 0.671                                     |
| GEOM MEAN             |  |  |                           | 6.7                              |  |   | 2.188                                       | 1.423   |   | 7.94     | 0.261                                     |
| MINIMUM               |  | 32   |                           | 1.0                              | 0.025  | 0.020                                       | 0.200                                       | 0.650   | 0.005                                     | 7.61     | 0.006                                     |
| STD DEV (GEOM *)      |  |  |                           | 10.2                             |  |   | 2.467                                       | 1.488   |   | 0.24     | 0.911                                     |
| # SAMP IN STATISTICS  |  | 9  |                           | 8                                | 9  | 11  | 12  | 12  | 2   | 12       | 12  |
| % SAMP (EXCLUDED)     |  | 18   |                           |                                  | 18   | 8   |   |   | 75  |          |   |

| *=-INTERIM TEST-NAME: |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|-----------------------|------|--|--|-----------------------------------|-------------------------|---|-------|
| 870105                | 1025 | 37405  | 0.415  | 4<                                | 17.6                    | 18.60                                     | 0.014 |
| 870202                | 1035 | 37421  | 0.545  | 16C                               | 39.5                    | 2.10                                      | 0.047 |
| 870303                | 1110 | 37437  | 0.410  | 96                                | 22.0                    | 13.90                                     | 0.020 |
| 870406                | 1035 | 37453  | 0.360  | 8                                 | 12.2                    | 9.50                                      |       |
| 870504                | 1018 | 37469  | 0.164  |                                   | 4.8                     | 3.50                                      | 0.012 |
| 870601                | 1040 | 37485  | 5.050  | 4<                                | 14.3                    | 14.10                                     | 0.012 |
| 870706                | 1005 | 37501  | 2.750  | 4<                                | 6.6                     | 6.20                                      |       |
| 870804                | 1019 | 37517  | 0.305  | 60                                | 10.2                    | 3.40                                      | 0.007 |
| 870908                | 0938 | 37533  | 2.550  | 4<                                | 12.2                    | 6.80                                      | 0.110 |
| 871005                | 1022 | 37549  | 0.495  | 8                                 | 198.4                   | 44.00                                     | 0.097 |
| 871102                | 1024 | 37565  | 0.590  | 4                                 | 1.5                     | 7.40                                      |       |
| 871207                | 1026 | 37581  | 0.460  | 4                                 | 32.2                    | 21.00                                     |       |
| MAXIMUM               |      | 5.050  | 96   | 198.4                             | 44.00                   | 0.110                                     |       |
| ARITH MEAN            |      | 1.174  | 28   | 31.0                              | 12.54                   | 0.040                                     |       |
| GEOM MEAN             |      | 0.668  |  | 14.7                              | 8.91                    | 0.025                                     |       |
| MINIMUM               |      | 0.164  | 4  | 1.5                               | 2.10                    | 0.007                                     |       |
| STD DEV (GEOM *)      |      | 1.499  |  | 53.9                              | 11.62                   | 0.041                                     |       |
| # SAMP IN STATISTICS  |      | 12   | 7  | 12                                | 12                      | 8   |       |
| % SAMP (EXCLUDED)     |      |  | 36   |                                   |                         |   |       |



B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 23, DOWNSTREAM FROM LISTOWEL  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE003

STATION ID: 08-0056-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 37.64 LONG: 080 58 23.46

U T M: 17 0502160.0 4841350.0 4

REGION: 01

DISTANCE: 147.090

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          | FECAL    | FECAL    |
|                      |      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | COLIFORM | STREPCUS |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | MF       | MF       |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | CNT      | CNT      |
| YYMMDD               | LMT  | M      | CODE     | AS CACO3 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS O     | /100ML   | /100ML   |
| 870105               | 0945 | 37403  | 0101     | 328.0    | 1.23     |          | 19.000   | 715.0    | 12.5     | 300      | 4        |
| 870202               | 0955 | 37419  | 0101     | 302.0    | 1.56     |          | 30.500   | 695.0    | 8.5      | 500      | 424      |
| 870303               | 1008 | 37435  | 0101     | 267.0    | 2.55     |          | 360.000  | 685.0    | 11.0     | 600>     | 600>     |
| 870406               | 0955 | 37451  | 0101     | 196.0    | 1.08     |          | 12.500   | 481.0    |          | 240      | 280      |
| 870504               | 0940 | 37467  | 0101     | 246.0    | 0.92     |          | 21.500   | 535.0    |          |          |          |
| 870601               | 1000 | 37483  | 0101     | 215.0    | 1.32     |          | 37.500   | 560.0    |          | 80       | 72       |
| 870706               | 0922 | 37499  | 0101     | 207.0    | 1.10     |          | 30.500   | 489.0    |          | 250      | 48       |
| 870804               | 0936 | 37515  | 0101     | 254.0    | 1.47     |          | 29.000   | 625.0    |          | 250      | 16       |
| 870908               | 0922 | 37531  | 0101     |          | 2.98     | 47.000   |          | 635.0    |          | 88       | 8        |
| 871005               | 0942 | 37547  | 0101     | 219.8    | 0.84     | 35.630   |          | 545.0    |          | 412      | 48       |
| 871102               | 0943 | 37563  | 0101     | 295.6    | 0.62     | 30.030   |          | 730.0    | 7.0      | 552      | 88       |
| 871207               | 0947 | 37579  | 0101     |          |          |          |          |          |          | 216      | 52       |
| MAXIMUM              |      | 0.30   |          | 328.0    | 2.98     | 47.000   | 360.000  | 730.0    | 12.5     | 552      | 424      |
| ARITH MEAN           |      | 0.30   |          | 253.0    | 1.42     | 37.553   | 67.562   | 608.6    | 9.7      | 289      | 104      |
| GEOM MEAN            |      |        |          | 249.5    | 1.29     | 36.911   | 34.173   | 602.4    | 9.5      |          |          |
| MINIMUM              |      | 0.30   |          | 196.0    | 0.62     | 30.030   | 12.500   | 481.0    | 7.0      | 80       | 4        |
| STD DEV (GEOM *)     |      |        |          | 44.7     | 0.72     | 8.647    | 118.424  | 91.0     | 2.5      |          |          |
| # SAMP IN STATISTICS |      | 12     |          | 10       | 11       | 3        | 8        | 11       | 4        | 10       | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          | 9        | 9        |

| *=INTERIM TEST-NAME: |      | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH    | PPO4UR | PPUT     |       |
|----------------------|------|--------|--------|--------|----------|----------|----------|----------|-------|--------|----------|-------|
|                      |      |        |        |        | NH3-N    |          |          | K'DAHL N |       |        |          |       |
|                      |      |        |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |       |        |          |       |
| SAMPLE               |      | STREAM |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | PO4    | PHOSPHOR |       |
| DATE                 | HR   | FLOW   | COND.  | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | PH    | MG/L   | MG/L     |       |
| YYMMDD               | LMT  | M3     |        | DEG.C  | AS N     | AS N     | AS N     | AS N     |       | AS P   | AS P     |       |
|                      |      | /S     |        |        |          |          |          |          |       |        |          |       |
| 870105               | 0945 | 37403  | 0.609  | 8 4    | 1.0      | 0.130    | 0.020    | 3.000    | 0.660 | 8.06   | 0.028    | 0.073 |
| 870202               | 0955 | 37419  | 0.255  | 4 8    | 2.0      | 0.745    | 0.010    | 2.600    | 1.330 | 7.90   | 0.047    | 0.093 |
| 870303               | 1008 | 37435  | 0.519  | 4 8    | 2.0      | 0.990    | 0.140    | 3.000    | 1.360 | 7.71   | 0.098    | 0.140 |
| 870406               | 0955 | 37451  | 5.720  |        |          | 0.125    | 0.030    | 5.000    | 0.920 | 7.88   | 0.063    | 0.160 |
| 870504               | 0940 | 37467  | 0.132  |        |          | 0.030    | 0.030    | 1.300    | 0.590 | 8.13   | 0.027    | 0.049 |
| 870601               | 1000 | 37483  | 0.138  |        |          | 0.055    | 0.020    | 0.100    | 0.640 | 8.09   | 0.020    | 0.052 |
| 870706               | 0922 | 37499  | 0.633  |        |          | 0.080    | 0.020    | 0.100<   | 0.590 | 7.82   | 0.105    | 0.133 |
| 870804               | 0936 | 37515  | 0.333  |        |          | 0.105    | 0.080    | 2.500    | 1.240 | 7.98   | 0.081    | 0.138 |
| 870908               | 0922 | 37531  | 0.023  |        |          | 0.005<   | 0.070    | 0.400    | 0.820 | 7.99   | 0.031    | 0.064 |
| 871005               | 0942 | 37547  | 0.033  |        |          | 0.100    | 0.010    | 0.800    | 0.450 | 7.96   | 0.027    | 0.070 |
| 871102               | 0943 | 37563  | 0.233  | 8      | 11.0     | 0.036    | 0.040    | 6.100    | 0.620 | 8.05   | 0.040    | 0.052 |
| 871207               | 0947 | 37579  | 0.618  |        |          |          |          |          |       |        |          |       |

( C O N T D )

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 23, DOWNSTREAM FROM LISTOWEL  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE003

STATION ID: 08-0056-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 37.64 LONG: 080 58 23.46

U T M: 17 0502160.0 4841350.0 4

REGION: 01

DISTANCE: 147.090

| *=INTERIM TEST-NAME: |             | FWFLOW           | FWSTRC                     | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PP04UR<br>PO4 | PPUT<br>PHOSPHOR         |                          |
|----------------------|-------------|------------------|----------------------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------|--------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | PH            | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P |
| MAXIMUM              |             | 5.720            |                            | 11.0            | 0.990                    | 0.140                    | 6.100                    | 1.360                       | 8.13                     | 0.105         | 0.160                    |                          |
| ARITH MEAN           |             | 0.770            |                            | 4.0             | 0.240                    | 0.043                    | 2.480                    | 0.838                       | 7.96                     | 0.052         | 0.093                    |                          |
| GEOM MEAN            |             | 0.276            |                            | 2.6             |                          | 0.031                    |                          | 0.785                       | 7.96                     | 0.044         | 0.085                    |                          |
| MINIMUM              |             | 0.023            |                            | 1.0             | 0.030                    | 0.010                    | 0.100                    | 0.450                       | 7.71                     | 0.020         | 0.049                    |                          |
| STD DEV (GEOM *)     |             | 1.575            |                            | 4.7             |                          | 0.040                    |                          | 0.328                       | 0.13                     | 0.031         | 0.042                    |                          |
| # SAMP IN STATISTICS |             | 12               |                            | 4               | 10                       | 11                       | 10                       | 11                          | 11                       | 11            | 11                       |                          |
| % SAMP (EXCLUDED)    |             |                  |                            |                 | 9                        |                          | 9                        |                             |                          |               |                          |                          |

| *=INTERIM TEST-NAME: |             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU |
|----------------------|-------------|--|-----------------------------------|-------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER                                   |                                   |                         |
| 870105               | 0945        | 37403  | 4<                                | 24.7                    |
| 870202               | 0955        | 37419  | 4<                                | 5.0<                    |
| 870303               | 1008        | 37435  | 8                                 | 5.0<                    |
| 870406               | 0955        | 37451  | 4<                                | 18.4                    |
| 870504               | 0940        | 37467  |                                   | 5.0<                    |
| 870601               | 1000        | 37483  | 4<                                | 5.0<                    |
| 870706               | 0922        | 37499  | 12                                | 2.6                     |
| 870804               | 0936        | 37515  | 8                                 | 8.8                     |
| 870908               | 0922        | 37531  | 4<                                | 5.0<                    |
| 871005               | 0942        | 37547  | 4<                                | 3.2                     |
| 871102               | 0943        | 37563  | 4<                                | 5.0<                    |
| 871207               | 0947        | 37579  | 8                                 |                         |
| MAXIMUM              |             | 12   | 24.7                              | 17.50                   |
| ARITH MEAN           |             | 9  | 11.5                              | 4.94                    |
| GEOM MEAN            |             |  |                                   | 3.80                    |
| MINIMUM              |             | 8  | 2.6                               | 1.90                    |
| STD DEV (GEOM *)     |             |  |                                   | 4.65                    |
| # SAMP IN STATISTICS |             | 4  | 5                                 | 11                      |
| % SAMP (EXCLUDED)    |             | 63   | 54                                |                         |

## 187

STORET CODE: 02  
002  
0530

**DISTANCE: 43.451**

| * = INTERIM              |             | TEST-NAME:       | FWSTRC          | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL  | NNO2UR<br>NO2-N           | NNO3UR<br>NO3-N           | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD               | PH   | PHNOL<br>PHENOLS           | PP04UR<br>PO4             |
|--------------------------|-------------|------------------|-----------------|------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|------|----------------------------|---------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF .REAC<br>MG/L<br>AS N | UNF .REAC<br>MG/L<br>AS N | UNF .REAC<br>MG/L<br>AS N | UNF .REAC<br>MG/L<br>AS N   | UNF .TOT.<br>MG/L<br>AS PB | PH   | UNF-REAC<br>UG/L<br>PHENOL | UNF .REAC<br>MG/L<br>AS P |
| 870105                   | 1149        | 37410            | 8 4             | 1.0                    | 0.005                     | 0.010                     | 4.700                     | 0.420                       |                            | 8.20 | 3.500                      | 0.001                     |
| 870202                   | 1153        | 37426            | 4 8             | 1.5                    | 0.115                     | 0.020                     | 4.500                     | 0.590                       | 0.003<                     | 7.87 | 1.000<                     | 0.006                     |
| 870303                   | 1310        | 37442            | 4 8             | 1.5                    | 0.265                     | 0.170                     | 6.000                     | 0.680                       | 0.004                      | 7.81 | 1.000<                     | 0.050                     |
| 870406                   | 1310        | 37458            |                 |                        | 0.035                     | 0.030                     | 7.200                     | 0.760                       |                            | 8.02 | 1.000                      | 0.041                     |
| 870504                   | 1253        | 37474            |                 |                        | 0.040                     | 0.030                     | 3.200                     | 0.590                       | 0.003<                     | 8.20 | 1.000<                     | 0.003                     |
| 870601                   | 1210        | 37490            | 8               | 26.0                   | 0.025                     | 0.050                     | 1.700                     | 0.860                       | 0.003<                     | 8.14 | 1.000<                     | 0.003                     |
| 870706                   | 1145        | 37506            |                 |                        | 0.070                     | 0.010                     | 0.500                     | 0.640                       |                            | 7.97 | 1.000<                     | 0.016                     |
| 870804                   | 1247        | 37522            | 8               | 26.0                   | 0.055                     | 0.040                     | 5.600                     | 1.040                       | 0.003<                     | 8.19 | 1.000<                     | 0.029                     |
| 870908                   | 1128        | 37538            | 8               | 23.0                   | 0.020                     | 0.050                     | 1.000                     | 0.560                       | 0.003<                     | 8.16 | 1.000<                     | 0.004                     |
| 871005                   | 1151        | 37554            | 8               | 13.0                   | 0.010                     | 0.010<                    | 3.000                     | 0.540                       | 0.004                      | 8.19 | 1.000<                     | 0.005                     |
| 871102                   | 1152        | 37570            | 8               | 13.0                   | 0.006                     | 0.010<                    | 9.900                     | 0.520                       |                            | 8.11 | 1.000<                     | 0.006                     |

( C O N T D )

B.O.W./ SITE: SOUTH MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 4, LONDESBOROUGH  
 STATION TYPE: RIVER

STATION ID: 08-0056-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 41 35.97 LONG: 081 29 02.19 U T M: 17 0461000.0 4837710.0 4 REGION: 01 DISTANCE: 43.451

| *=INTERIM TEST-NAME: |      | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT. | PH                        | PHNOL<br>PHENOLS<br>UNF-REAC | PP04UR<br>P04<br>UNF.REAC |                     |
|----------------------|------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|---------------------------|---------------------|
| DATE                 | HOUR | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                           | PHENOL<br>UG/L<br>PHENOL  | P04<br>MG/L<br>AS P |
| MAXIMUM              |      |                  |                 | 26.0                     | 0.265                       | 0.170                       | 9.900                       | 1.040                    | 0.004                     | 8.20                         | 3.500                     | 0.050               |
| ARITH MEAN           |      |                  |                 | 13.1                     | 0.059                       | 0.046                       | 4.300                       | 0.655                    | 0.004                     | 8.08                         | 2.250                     | 0.015               |
| GEOM MEAN            |      |                  |                 | 7.0                      | 0.031                       |                             | 3.240                       | 0.635                    |                           | 8.08                         |                           | 0.008               |
| MINIMUM              |      |                  |                 | 1.0                      | 0.005                       | 0.010                       | 0.500                       | 0.420                    | 0.004                     | 7.81                         | 1.000                     | 0.001               |
| STD DEV (GEOM *)     |      |                  |                 | 11.0                     | 0.076                       |                             | 2.820                       | 0.175                    |                           | 0.14                         |                           | 0.017               |
| # SAMP IN STATISTICS |      |                  |                 | 8                        | 11                          | 9                           | 11                          | 11                       | 2                         | 11                           | 2                         | 11                  |
| % SAMP (EXCLUDED)    |      |                  |                 |                          |                             | 18                          |                             |                          | 71                        |                              | 81                        |                     |

| *=INTERIM TEST-NAME: |      | PPUT             | PSAMF<br>PSEUDOMN<br>AERUG.          | RSP                        | TURB            | ZNUT                              |
|----------------------|------|------------------|--------------------------------------|----------------------------|-----------------|-----------------------------------|
| DATE                 | HOUR | SAMPLE<br>NUMBER | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
| 870105               | 1149 | 37410            | 0.011                                | 4<                         | 5.0<            | 3.30                              |
| 870202               | 1153 | 37426            | 0.024                                | 4<                         | 5.0<            | 2.40                              |
| 870303               | 1310 | 37442            | 0.092                                | 4                          | 17.7            | 11.30                             |
| 870406               | 1310 | 37458            | 0.082                                | 4<                         | 12.5            | 16.60                             |
| 870504               | 1253 | 37474            | 0.024                                |                            | 5.0<            | 3.00                              |
| 870601               | 1210 | 37490            | 0.044                                | 4<                         | 7.1             | 8.10                              |
| 870706               | 1145 | 37506            | 0.032                                | 4<                         | 7.9             | 8.40                              |
| 870804               | 1247 | 37522            | 0.064                                | 4<                         | 20.3            | 15.30                             |
| 870908               | 1128 | 37538            | 0.024                                | 4<                         | 5.0<            | 3.60                              |
| 871005               | 1151 | 37554            | 0.012                                | 4                          | 1.2             | 2.30                              |
| 871102               | 1152 | 37570            | 0.018                                | 4                          | 5.0<            | 1.60                              |
| 871207               | 1151 | 37586            |                                      | 4<                         |                 |                                   |
| MAXIMUM              |      |                  | 0.092                                | 4                          | 20.3            | 16.60                             |
| ARITH MEAN           |      |                  | 0.039                                | 4                          | 11.1            | 6.90                              |
| GEOM MEAN            |      |                  | 0.031                                |                            |                 | 5.11                              |
| MINIMUM              |      |                  | 0.011                                | 4                          | 1.2             | 1.60                              |
| STD DEV (GEOM *)     |      |                  | 0.028                                |                            |                 | 5.44                              |
| # SAMP IN STATISTICS |      |                  | 11                                   | 3                          | 6               | 11                                |
| % SAMP (EXCLUDED)    |      |                  |                                      | 72                         | 45              | 7                                 |

B.O.W./ SITE: BOYLE DRAIN  
 SAMPLE POINT: DOWNSTREAM FROM HENFRYN  
 STATION TYPE: RIVER

STATION ID: 08-0056-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 41 35.15 LONG: 081 05 33.92

U T M: 17 0492525.0 4837575.0 4

REGION: 01

DISTANCE: 131.802

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |                      |          | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        |
| SAMPLE               |      | SAMPLE               | PROJECT  | TOTAL    | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  |
| DATE                 | HR   | DEPTH                | SUB-PROJ | MG/L     | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | /100ML   | /100ML   | COND.  | DEG.C  |
| 870105               | 1050 | 37406                | 0101     |          |          | 22.500   | 825.0    | 20       | 12       | 8 4    | 1.0    |
| 870406               | 1100 | 37454                | 0101     |          |          | 10.000   | 500.0    | 400      | 280      |        |        |
| 870504               | 1040 | 37470                | 0101     |          |          | 19.500   | 545.0    |          |          |        |        |
| 870601               | 1108 | 37486                | 0101     |          |          | 22.000   | 477.0    | 36       | 4        |        |        |
| 870706               | 1037 | 37502                | 0101     |          |          | 23.000   | 360.0    | 52       | 16       |        |        |
| 870804               | 1046 | 37518                | 0101     |          |          | 15.000   | 665.0    | 600>     | 440      |        |        |
| 870908               | 1030 | 37534                | 0101     |          | 38.500   |          | 635.0    | 4        | 4<       |        |        |
| 871005               | 1048 | 37550                | 0101     | 203.8    | 37.140   |          | 590.0    | 80       | 40       |        |        |
| 871102               | 1053 | 37566                | 0101     |          | 20.610   |          | 765.0    | 132      | 368      | 8      | 12.0   |
| 871207               | 1055 | 37582                | 0101     |          | 21.290   |          | 695.0    |          | 152      |        |        |
|                      |      | MAXIMUM              | 0.30     | 203.8    | 38.500   | 23.000   | 825.0    | 400      | 440      |        | 12.0   |
|                      |      | ARITH MEAN           | 0.30     | 203.8    | 29.385   | 18.667   | 605.7    | 103      | 164      |        | 6.5    |
|                      |      | GEOM MEAN            |          |          | 28.144   | 17.937   | 590.0    |          |          |        | 3.5    |
|                      |      | MINIMUM              | 0.30     | 203.8    | 20.610   | 10.000   | 360.0    | 4        | 4        |        | 1.0    |
|                      |      | STD DEV (GEOM *)     |          |          | 9.760    | 5.174    | 140.6    |          |          |        | 7.8    |
|                      |      | # SAMP IN STATISTICS | 10       | 1        | 4        | 6        | 10       | 7        | 8        |        | 2      |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          | 12       | 11       |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          |         |          |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | PO4      | PHOSPHOR |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | FTU      |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    |          |
| 870105               | 1050 | 0.080    | 0.010    | 3.500    | 0.690    | 7.94 | 0.039    | 0.057    | 5.0<    | 4.30     |
| 870406               | 1100 | 0.125    | 0.030    | 5.800    | 1.200    | 7.72 | 0.078    | 0.150    | 21.3    | 24.00    |
| 870504               | 1040 | 0.030    | 0.020    | 1.100    | 0.900    | 8.14 | 0.009    | 0.036    | 5.0<    | 5.40     |
| 870601               | 1108 | 0.015    | 0.020    | 0.200    | 0.960    | 8.62 | 0.005    | 0.029    | 5.0<    | 3.30     |
| 870706               | 1037 | 0.055    | 0.010<   | 0.100<   | 0.750    | 8.75 | 0.006    | 0.023    | 5.0<    | 1.64     |
| 870804               | 1046 | 0.065    | 0.060    | 4.000    | 1.180    | 7.78 | 0.112    | 0.128    | 15.0    | 12.70    |
| 870908               | 1030 | 0.093    | 0.020    | 0.600    | 0.860    | 8.14 | 0.012    | 0.031    | 1.1     | 3.50     |
| 871005               | 1048 | 0.010    | 0.010<   | 0.400    | 0.440    | 8.40 | 0.012    | 0.018    | 5.0<    | 3.40     |
| 871102               | 1053 | 0.010    | 1.640    | 14.900   | 0.680    | 7.97 | 0.062    | 0.107    | 5.0<    | 4.10     |
| 871207               | 1055 | 0.226    | 0.260    | 7.500    | 0.820    | 7.96 | 0.001<   | 0.061    | 7.0     | 25.00    |

B.O.W./ SITE: BOYLE DRAIN  
 SAMPLE POINT: DOWNSTREAM FROM HENFRYN  
 STATION TYPE: RIVER

STATION ID: 08-0056-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 41 35.15 LONG: 081 05 33.92

U T M: 17 0492525.0 4837575.0 4

REGION: 01

DISTANCE: 131.802

| *=INTERIM TEST-NAME: |      | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC | PH    | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY |
|----------------------|------|--------------------------|-----------------------------|-----------------------------|---|-------|---------------------------|------------------------------|---------------------------|------------------|
| DATE                 | HOUR | MG/L                     | MG/L                        | MG/L                        | MG/L                                    | PH    | MG/L                      | MG/L                         | MG/L                      | FTU              |
| YYMMDD               | LMT  | AS N                     | AS N                        | AS N                        | AS N                                    |       | AS P                      | AS P                         |                           |                  |
|                      |      | MAXIMUM                  | 0.226                       | 1.640                       | 14.900                                  | 1.200 | 8.75                      | 0.112                        | 0.150                     | 25.00            |
|                      |      | ARITH MEAN               | 0.071                       | 0.257                       | 4.222                                   | 0.848 | 8.14                      | 0.037                        | 0.064                     | 8.73             |
|                      |      | GEOM MEAN                | 0.045                       |                             |   | 0.818 | 8.14                      |                              | 0.050                     | 5.85             |
|                      |      | MINIMUM                  | 0.010                       | 0.010                       | 0.200                                   | 0.440 | 7.72                      | 0.005                        | 0.018                     | 1.64             |
|                      |      | STD DEV (GEOM *)         | 0.067                       |                             |   | 0.231 | 0.35                      |                              | 0.047                     | 8.83             |
| # SAMP IN STATISTICS | 10   |                          | 8                           | 9                           | 10                                      | 10    | 9                         | 10                           | 4                         | 10               |
| % SAMP (EXCLUDED)    |      |                          | 20                          | 10                          |   |       | 10                        |                              | 60                        |                  |

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68 U T M: 17 0442600.0 4844450.0 4 REGION: 01 DISTANCE: 2.736

| *=INTERIM      |             | TEST-NAME:           | FWSADP               | FGPROJ                      | ALKT                             | ASUT                                 | CCNAUR<br>CYANIDE                   | CDUT                                 | CLIDUR                                | CLIDUR                                 | COND25                                | CRUT                                  |
|----------------|-------------|----------------------|----------------------|-----------------------------|----------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|
| SAMPLE<br>DATE | HOUR<br>LMT | SAMPLE<br>NUMBER     | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | AVAIL<br>UNF.REAC<br>MG/L<br>AS HCN | CADMIUM<br>UNF.TOT.<br>MG/L<br>AS CD | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR |
| 870105         | 1319        | 37411                | 0.30                 | 0101                        | 279.0                            | 0.001 <                              | 0.001<W                             | 0.0003<                              |                                       | 88.500                                 | 905.0                                 | 0.001 <                               |
| 870202         | 1338        | 37427                | 0.30                 | 0101                        | 281.0                            | 0.001 <                              | 0.001<W                             | 0.0030<                              |                                       | 78.000                                 | 865.0                                 | 0.005 <                               |
| 870303         | 1345        | 37443                | 0.30                 | 0101                        | 243.0                            | 0.0010<                              | 0.001<W                             | 0.0003                               |                                       | 68.500                                 | 745.0                                 | 0.0010                                |
| 870406         | 1345        | 37459                | 0.30                 | 0101                        | 110.4                            |                                      |                                     |                                      |                                       | 27.000                                 | 530.0                                 |                                       |
| 870504         | 1335        | 37475                | 0.30                 | 0101                        |                                  | 0.001 <                              | 0.001<W                             | 0.0003<                              |                                       |  |                                       | 0.001 <                               |
| 870601         | 1317        | 37491                | 0.30                 | 0101                        | 166.0                            | 0.001 <                              | 0.001<W                             | 0.0003<                              |                                       | 170.000                                | 1020.0                                | 0.002                                 |
| 870706         | 1300        | 37507                | 0.30                 | 0101                        | 156.0                            |                                      |                                     |                                      |                                       | 325.000                                | 1390.0                                |                                       |
| 870804         | 1330        | 37523                | 0.30                 | 0101                        | 179.0                            | 0.001 <                              | 0.001<W                             | 0.0003<                              |                                       | 170.000                                | 940.0                                 | 0.001                                 |
| 870908         | 1324        | 37539                | 0.30                 | 0101                        |                                  | 0.001 <                              | 0.007                               | 0.0003<                              | 235.000                               |  | 1170.0                                | 0.002                                 |
| 871005         | 1337        | 37555                | 0.30                 | 0101                        | 176.5                            | 0.001 <                              | NO DATA NR                          | 0.0003<                              | 363.050                               |  | 1570.0                                | 0.003                                 |
| 871102         | 1322        | 37571                | 0.30                 | 0101                        | 267.4                            |                                      |                                     |                                      | 365.300                               |  | 1700.0                                |                                       |
| 871207         | 1352        | 37587                | 0.30                 | 0101                        |                                  |                                      |                                     |                                      |                                       |  |                                       |                                       |
|                |             | MAXIMUM              | 0.30                 |                             | 281.0                            |                                      | 0.007                               | 0.0003                               | 365.300                               | 325.000                                | 1700.0                                | 0.003                                 |
|                |             | ARITH MEAN           | 0.30                 |                             | 206.5                            |                                      | 0.002<A                             | 0.0003                               | 321.117                               | 132.428                                | 1083.5                                | 0.002                                 |
|                |             | GEOM MEAN            |                      |                             | 197.6                            |                                      | 0.001<A                             |                                      | 314.698                               | 102.628                                | 1025.5                                |                                       |
|                |             | MINIMUM              | 0.30                 |                             | 110.4                            |                                      | 0.001                               | 0.0003                               | 235.000                               | 27.000                                 | 530.0                                 | 0.0010                                |
|                |             | STD DEV (GEOM *)     |                      |                             | 62.2                             |                                      | 0.002<A                             |                                      | 74.588                                | 100.001                                | 371.7                                 |                                       |
|                |             | # SAMP IN STATISTICS | 12                   |                             | 9                                |                                      | 7                                   | 1                                    | 3                                     | 7                                      | 10                                    | 5                                     |
|                |             | % SAMP (EXCLUDED)    |                      |                             |                                  |                                      |                                     | 87                                   |                                       |  |                                       | 37                                    |

| *=INTERIM |      | TEST-NAME: | CUUT   | DO   | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC | FWTEMP | HGUT<br>MERCURY<br>UNF.TOT.<br>UG/L<br>AS HG | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |
|-----------|------|------------|--------|------|--|---|--|--------|--------|--|---|--|
| 870105    | 1319 | 37411      | 0.001  | 8.0  | 4  | 0.049                                     | 4<   | 8      | 1.0    | 0.02   | 0.002<                                      | 0.005<   |
| 870202    | 1338 | 37427      | 0.015  | 11.0 | 12   | 0.042                                     | 4<   | 4 8    | 2.0    | 0.04   | 0.015<                                      | 0.075  |
| 870303    | 1345 | 37443      | 0.0010 | 15.0 | 152  | 0.130                                     | 176  | 4 8    | 1.0    | 0.01<  | 0.002<                                      | 0.240  |
| 870406    | 1345 | 37459      |        |      | 104  |   | 60   |        |        |  |   | 0.035  |
| 870504    | 1335 | 37475      | 0.001  |      |  | 0.030                                     |  |        |        | 0.03   | 0.002                                       |  |
| 870601    | 1317 | 37491      | 0.005  | 11.0 | 4  | 0.052                                     | 4<   | 8      | 28.0   | 0.01   | 0.002<                                      | 0.040  |
| 870706    | 1300 | 37507      |        |      | 160  |   | 16   |        |        |  |   | 0.100  |
| 870804    | 1330 | 37523      | 0.003  | 8.0  | 360  | 0.920                                     | 30AID  | 8      | 28.0   | 0.02   | 0.002                                       | 0.065  |
| 870908    | 1324 | 37539      | 0.002  | 13.0 | 4<   | 0.041                                     | 4<   | 8      | 27.0   | 0.02   | 0.001<                                      | 0.060  |
| 871005    | 1337 | 37555      | 0.002  | 12.0 | 4  | 0.074                                     | 28   | 8      | 18.5   | 0.06   | 0.001<                                      | 0.010  |
| 871102    | 1322 | 37571      |        | 11.0 | 8  |   | 16   | 8      | 13.0   |  |   | 0.001<   |
| 871207    | 1352 | 37587      |        |      | 4<   |   | 20   |        |        |  |   |  |

( C O N T D )

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68

U T M: 17 0442600.0 4844450.0 4

REGION: 01

DISTANCE: 2.736

| *INTERIM TEST-NAME:  |      | CUUT             | DO                         | FCMF<br>FECAL<br>COLIFORM   | FEUT<br>IRON     | FSMF<br>FECAL<br>STREPCUS | FWSTRC                      | FWTEMP                 | HGUT<br>MERCURY              | NIUT<br>NICKEL              | NNHTUR<br>NH3-N<br>TOTAL   |
|----------------------|------|------------------|----------------------------|-----------------------------|------------------|---------------------------|-----------------------------|------------------------|------------------------------|-----------------------------|----------------------------|
| SAMPLE<br>DATE       | HR   | UNF.TOT.<br>MG/L | DISOLVED<br>OXYGEN<br>MG/L | MF<br>CNT<br>/100ML         | UNF.TOT.<br>MG/L | MF<br>CNT<br>/100ML       | STREAM<br>COND.             | WATER<br>TEMP<br>DEG.C | UNF.TOT.<br>UG/L             | UNF.TOT.<br>MG/L            | UNF.REAC<br>MG/L           |
| YYMMDD               | LMT  | AS CU            | AS O                       |                             | AS FE            |                           |                             |                        | AS HG                        | AS NI                       | AS N                       |
| MAXIMUM              |      | 0.015            | 15.0                       | 360                         | 0.920            | 176                       |                             | 28.0                   | 0.06                         | 0.002                       | 0.240                      |
| ARITH MEAN           |      | 0.004            | 11.1                       | 90                          | 0.167            | 49                        |                             | 14.8                   | 0.03                         | 0.002                       | 0.078                      |
| GEOM MEAN            |      | 0.002            | 10.9                       |                             | 0.076            |                           |                             | 7.5                    |                              |                             |                            |
| MINIMUM              |      | 0.001            | 8.0                        | 4                           | 0.030            | 16                        |                             | 1.0                    | 0.01                         | 0.002                       | 0.010                      |
| STD DEV (GEOM *)     |      | 0.005            | 2.4                        |                             | 0.306            |                           |                             | 12.3                   |                              |                             |                            |
| # SAMP IN STATISTICS |      | 8                | 8                          | 9                           | 8                | 7                         |                             | 8                      | 7                            | 2                           | 8                          |
| % SAMP (EXCLUDED)    |      |                  |                            | 18                          |                  | 36                        |                             |                        | 12                           | 75                          | 20                         |
| *INTERIM TEST-NAME:  |      | NN02UR           | NN03UR                     | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD     | PH                        | PHNOL                       | PP04UR                 | PPUT                         | RSF                         | RSP                        |
| SAMPLE<br>DATE       | HR   | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L           | UNF.REAC<br>MG/L            | UNF.TOT.<br>MG/L | PH                        | PHENOLS<br>UNF-REAC<br>UG/L | UNF.REAC<br>MG/L       | PHOSPHOR<br>UNF.TOT.<br>MG/L | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L |
| YYMMDD               | LMT  | AS N             | AS N                       | AS N                        | AS PB            |                           | PHENOL                      | AS P                   | AS P                         |                             |                            |
| 870105               | 1319 | 37411            | 0.010                      | 5.500                       | 0.390            | 8.42                      | 1.000<                      | 0.001<                 | 0.005                        | 465.1                       | 4.9                        |
| 870202               | 1338 | 37427            | 0.010                      | 3.800                       | 0.440            | 8.13                      | 1.000<                      | 0.004                  | 0.010                        | 506.0                       | 5.0<                       |
| 870303               | 1345 | 37443            | 0.050                      | 4.300                       | 0.740            | 8.14                      | 1.000<                      | 0.013                  | 0.028                        | 432.1                       | 5.9                        |
| 870406               | 1345 | 37459            | 0.030                      | 5.000                       | 0.880            | 8.24                      | 1.000<                      | 0.021                  | 0.080                        | 342.7                       | 23.3                       |
| 870504               | 1335 | 37475            |                            |                             |                  |                           |                             |                        |                              |                             |                            |
| 870601               | 1317 | 37491            | 0.010                      | 0.300                       | 0.950            | 8.60                      | 1.000<                      | 0.000<                 | 0.024                        |                             | 3.2                        |
| 870706               | 1300 | 37507            | 0.010                      | 0.900                       | 0.670            | 8.54                      | 1.000<                      | 0.006                  | 0.015                        | 878.9                       | 3.6                        |
| 870804               | 1330 | 37523            | 0.010                      | 1.400                       | 1.050            | 8.26                      | 1.000<                      | 0.001<                 | 0.100                        | 546.8                       | 45.2                       |
| 870908               | 1324 | 37539            | 0.010                      | 0.100                       | 0.570            | 8.80                      | 1.000<                      | 0.001<                 | 0.013                        | 618.0                       | 5.0<                       |
| 871005               | 1337 | 37555            | 0.010<                     | 0.500                       | 0.520            | 8.56                      | 1.000<                      | 0.004                  | 0.010                        | 956.0                       | 5.0<                       |
| 871102               | 1322 | 37571            | 0.010<                     | 5.900                       | 0.600            | 8.40                      | 1.000<                      | 0.002                  | 0.006                        | 964.0                       | 5.0<                       |
| MAXIMUM              |      | 0.050            | 5.900                      | 1.050                       | 0.004            | 8.80                      |                             | 0.021                  | 0.100                        | 964.0                       | 45.2                       |
| ARITH MEAN           |      | 0.017            | 2.770                      | 0.681                       | 0.004            | 8.41                      |                             | 0.008                  | 0.029                        | 634.4                       | 14.3                       |
| GEOM MEAN            |      |                  | 1.479                      | 0.649                       |                  | 8.41                      |                             |                        | 0.018                        | 596.3                       |                            |
| MINIMUM              |      | 0.010            | 0.100                      | 0.390                       | 0.004            | 8.13                      |                             | 0.002                  | 0.005                        | 342.7                       | 3.2                        |
| STD DEV (GEOM *)     |      |                  | 2.342                      | 0.221                       |                  | 0.22                      |                             |                        | 0.033                        | 237.4                       |                            |
| # SAMP IN STATISTICS |      | 8                | 10                         | 10                          | 1                | 10                        |                             | 6                      | 10                           | 9                           | 6                          |
| % SAMP (EXCLUDED)    |      | 20               |                            |                             | 87               |                           |                             | 40                     |                              |                             | 40                         |

( C O N T D )



B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68

U T M: 17 0442600.0 4844450.0 4

REGION: 01

DISTANCE: 2.736

| *=INTERIM TEST-NAME: |      | TURB   | ZNUT     |
|----------------------|------|--------|----------|
|                      |      |        | ZINC     |
| SAMPLE               |      |        | UNF.TOT. |
| DATE                 | HR   | SAMPLE | TURB'ITY |
| YYMMDD               | LMT  | NUMBER | FTU      |
|                      |      |        | MG/L     |
|                      |      |        | AS ZN    |
| 870105               | 1319 | 37411  | 1.32     |
| 870202               | 1338 | 37427  | 1.05     |
| 870303               | 1345 | 37443  | 5.60     |
| 870406               | 1345 | 37459  | 18.80    |
| 870504               | 1335 | 37475  | 0.001<   |
| 870601               | 1317 | 37491  | 3.40     |
| 870706               | 1300 | 37507  | 2.70     |
| 870804               | 1330 | 37523  | 38.00    |
| 870908               | 1324 | 37539  | 1.45     |
| 871005               | 1337 | 37555  | 1.32     |
| 871102               | 1322 | 37571  | 1.10     |
| MAXIMUM              |      | 38.00  | 0.062    |
| ARITH MEAN           |      | 7.47   | 0.020    |
| GEOM MEAN            |      | 3.18   |          |
| MINIMUM              |      | 1.05   | 0.001    |
| STD DEV (GEOM *)     |      | 12.00  |          |
| # SAMP IN STATISTICS |      | 10     | 7        |
| % SAMP (EXCLUDED)    |      |        | 12       |

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: 0.7 MILES OF ETHEL  
 STATION TYPE: RIVER

STATION ID: 08-0056-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 04.98 LONG: 081 07 36.95 U T M: 17 0489775.0 4840350.0 4 REGION: 01 DISTANCE: 127.135

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |      |                      |          | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE               |      | SAMPLE               | PROJECT  | MG/L     | MG/L     | UMHO/CM  | MF       | MF       |        | WATER  | UNF.REAC |
| DATE                 | HOUR | DEPTH                | SUB-PROJ | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER               | CODE     |          |          |          | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870105               | 1102 | 37407                | 0101     |          | 20.000   | 785.0    | 52       | 12       | 8 4    | 1.0    | 0.070    |
| 870202               | 1110 | 37423                | 0101     |          | 25.000   | 715.0    | 144      | 184      | 4 8    | 2.0    | 0.300    |
| 870303               | 1150 | 37439                | 0101     |          | 31.500   | 715.0    | 600>     | 560      | 4 8    | 1.5    | 0.950    |
| 870406               | 1115 | 37455                | 0101     |          | 11.000   | 478.0    | 340      | 240      |        |        | 0.165    |
| 870504               | 1051 | 37471                | 0101     |          | 18.500   | 565.0    |          |          |        |        | 0.015    |
| 870601               | 1117 | 37487                | 0101     |          | 21.500   | 520.0    | 36       | 4<       |        |        | 0.045    |
| 870706               | 1046 | 37503                | 0101     |          | 35.500   | 535.0    | 40       | 4        |        |        | 0.120    |
| 870804               | 1056 | 37519                | 0101     |          | 16.500   | 645.0    | 610      | 36       |        |        | 0.075    |
| 870908               | 1039 | 37535                | 0101     | 38.000   |          | 670.0    | 32       | 4<       |        |        | 0.040    |
| 871005               | 1058 | 37551                | 0101     | 44.040   |          | 575.0    | 44       | 12       |        |        | 0.005<   |
| 871102               | 1122 | 37567                | 0101     | 21.840   |          | 760.0    | 80       | 128      | 8      | 11.0   | 0.042    |
| 871207               | 1104 | 37583                | 0101     | 25.180   |          | 680.0    | 76       | 44       |        |        | 0.450    |
|                      |      | MAXIMUM              | 0.30     |          | 44.040   | 785.0    | 610      | 560      |        | 11.0   | 0.950    |
|                      |      | ARITH MEAN           | 0.30     |          | 32.265   | 636.9    | 145      | 136      |        | 3.9    | 0.207    |
|                      |      | GEOM MEAN            |          |          | 30.973   | 629.5    |          |          |        | 2.4    |          |
|                      |      | MINIMUM              | 0.30     |          | 21.840   | 478.0    | 32       | 4        |        | 1.0    | 0.015    |
|                      |      | STD DEV (GEOM *)     |          |          | 10.495   | 7.997    | 100.3    |          |        | 4.8    |          |
|                      |      | # SAMP IN STATISTICS | 12       |          | 4        | 8        | 12       | 10       | 9      | 4      | 11       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          | 9        | 18     |        | 8        |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | RSP     | TURB     |       |
|----------------------|------|----------|----------|----------|-------|----------|----------|---------|----------|-------|
|                      |      |          |          | K'DAHL N |       |          |          |         |          |       |
|                      |      |          |          | TOTAL    |       |          |          |         |          |       |
| SAMPLE               |      | NO2-N    | NO3-N    | UNF.REAC | PH    | P04      | PHOSPHOR | RESIDUE | TURB'ITY |       |
| DATE                 | HOUR | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | PARTIC. | FTU      |       |
| YYMMDD               | LMT  | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | MG/L    |          |       |
|                      |      | AS N     | AS N     | AS N     |       | AS P     | AS P     |         |          |       |
| 870105               | 1102 | 37407    | 0.010    | 3.600    | 0.670 | 7.98     | 0.028    | 0.043   | 5.0<     | 2.20  |
| 870202               | 1110 | 37423    | 0.020    | 3.300    | 0.840 | 7.75     | 0.057    | 0.076   | 5.0<     | 4.10  |
| 870303               | 1150 | 37439    | 0.130    | 4.000    | 1.320 | 7.59     | 0.121    | 0.163   | 5.5      | 4.70  |
| 870406               | 1115 | 37455    | 0.030    | 5.500    | 1.060 | 7.76     | 0.084    | 0.150   | 20.6     | 22.00 |
| 870504               | 1051 | 37471    | 0.020    | 1.600    | 0.800 | 8.10     | 0.006    | 0.040   | 5.0<     | 2.90  |
| 870601               | 1117 | 37487    | 0.030    | 0.400    | 0.940 | 8.15     | 0.054    | 0.083   | 5.0<     | 3.00  |
| 870706               | 1046 | 37503    | 0.010    | 0.100<   | 0.880 | 8.29     | 0.045    | 0.066   | 3.1      | 4.10  |
| 870804               | 1056 | 37519    | 0.060    | 3.800    | 1.280 | 7.79     | 0.118    | 0.142   | 9.6      | 7.00  |
| 870908               | 1039 | 37535    | 0.030    | 0.800    | 0.750 | 8.39     | 0.022    | 0.050   | 5.0<     | 2.10  |
| 871005               | 1058 | 37551    | 0.010<   | 0.600    | 0.900 | 8.39     | 0.013    | 0.038   | 5.0<     | 2.90  |
| 871102               | 1122 | 37567    | 0.040    | 7.100    | 0.670 | 7.99     | 0.041    | 0.056   | 5.0<     | 1.82  |
| 871207               | 1104 | 37583    | 0.260    | 7.500    | 1.040 | 7.99     | 0.063    | 0.072   | 4.0      | 5.10  |

( C O N T D )

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: 0.7 MILES OF ETHEL  
 STATION TYPE: RIVER

STATION ID: 08-0056-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 04.98

LONG: 081 07 36.95

U T M: 17 0489775.0 4840350.0 4

REGION: 01

DISTANCE: 127.135

| *=INTERIM TEST-NAME:     |             | NN02UR               | NN03UR            | NNTKUR<br>K'DAHL N<br>TOTAL | PH           | PP04UR          | PPUT                 | RSP                | TURB            |       |
|--------------------------|-------------|----------------------|-------------------|-----------------------------|--------------|-----------------|----------------------|--------------------|-----------------|-------|
|                          |             | NO2-N<br>UNF.REAC    | NO3-N<br>UNF.REAC | UNF.REAC                    |              | PO4<br>UNF.REAC | PHOSPHOR<br>UNF.TOT. | RESIDUE<br>PARTIC. | TURB'ITY<br>FTU |       |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | MG/L<br>AS N      | MG/L<br>AS N                | MG/L<br>AS N | MG/L<br>AS P    | MG/L<br>AS P         | MG/L               |                 |       |
|                          |             | MAXIMUM              | 0.260             | 7.500                       | 1.320        | 8.39            | 0.121                | 0.163              | 20.6            | 22.00 |
|                          |             | ARITH MEAN           | 0.058             | 3.473                       | 0.929        | 8.01            | 0.054                | 0.082              | 8.6             | 5.16  |
|                          |             | GEOM MEAN            |                   |                             | 0.908        | 8.01            | 0.041                | 0.072              |                 | 3.92  |
|                          |             | MINIMUM              | 0.010             | 0.400                       | 0.670        | 7.59            | 0.006                | 0.038              | 3.1             | 1.82  |
|                          |             | STD DEV (GEOM *)     |                   |                             | 0.213        | 0.26            | 0.038                | 0.045              |                 | 5.51  |
|                          |             | # SAMP IN STATISTICS | 11                | 11                          | 12           | 12              | 12                   | 12                 | 5               | 12    |
|                          |             | % SAMP (EXCLUDED)    | 8                 | 8                           |              |                 |                      |                    | 58              |       |

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.16 WEST OF BRUSSELS  
 STATION TYPE: RIVER

STATION ID: 08-0056-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 46 18.21 LONG: 081 18 33.77 U T M: 17 0475100.0 4846350.0 4 REGION: 01 DISTANCE: 104.283

| *=INTERIM TEST-NAME: |      | FWSADP          | FGPROJ              | ALKT                 | BOD5             | CLIDUR           | CLIDUR           | COND25             | CUUT             | DO                 | FCMF                |
|----------------------|------|-----------------|---------------------|----------------------|------------------|------------------|------------------|--------------------|------------------|--------------------|---------------------|
|                      |      |                 |                     |                      | BOD<br>5 DAY     | CHLORIDE         | CHLORIDE         | CONDUCT.<br>25C    | COPPER           | DISOLVED<br>OXYGEN | FECAL<br>COLIFORM   |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>DEPTH | PROJECT<br>SUB-PROJ | ALK<br>TOTAL<br>MG/L | TOT.DEM.<br>MG/L | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L | UMHO/CM<br>AT 25 C | UNF.TOT.<br>MG/L | MG/L               | MF<br>CNT<br>/100ML |
| YYMMDD               | LMT  | NUMBER          | CODE                | AS CAC03             | AS O             | AS CL            | AS CL-           |                    | AS CU            | AS O               |                     |
| 870105               | 1120 | 37408           | 0101                | 320.0                | 0.44             |                  | 19.000           | 730.0              | 0.001            | 13.0               | 20                  |
| 870202               | 1130 | 37424           | 0101                | 294.0                | 1.20             |                  | 16.000           | 680.0              | 0.027            |                    | 60                  |
| 870303               | 1210 | 37440           | 0101                | 266.0                | 1.90             |                  | 21.000           | 660.0              |                  |                    | 216                 |
| 870406               | 1133 | 37456           | 0101                | 194.0                | 1.38             |                  | 10.500           | 473.0              |                  |                    | 220                 |
| 870504               | 1120 | 37472           | 0101                | 234.0                | 0.80             |                  | 16.500           | 535.0              | 0.003            |                    |                     |
| 870601               | 1138 | 37488           | 0101                | 203.0                | 1.47             |                  | 19.000           | 525.0              | 0.003            |                    | 8                   |
| 870706               | 1119 | 37504           | 0101                | 193.0                | 0.80             |                  | 23.000           | 485.0              |                  |                    | 12                  |
| 870804               | 1116 | 37520           | 0101                | 240.0                | 1.77             |                  | 15.500           | 580.0              | 0.004            |                    | 820                 |
| 870908               | 1059 | 37536           | 0101                |                      | 1.72             | 25.000           |                  | 540.0              | 0.003            |                    | 20AID               |
| 871005               | 1118 | 37552           | 0101                | 222.0                | 0.35             | 28.730           |                  | 530.0              | 0.002            |                    | 24                  |
| 871102               | 1124 | 37568           | 0101                | 301.2                | 0.72             | 18.750           |                  | 715.0              |                  |                    | 32                  |
| 871207               | 1124 | 37584           | 0101                | 287.3                | 0.44             | 19.240           |                  | 625.0              |                  |                    | 52                  |
| MAXIMUM              |      | 0.30            |                     | 320.0                | 1.90             | 28.730           | 23.000           | 730.0              | 0.027            | 13.0               | 820                 |
| ARITH MEAN           |      | 0.30            |                     | 250.4                | 1.08             | 22.930           | 17.562           | 589.8              | 0.006            | 13.0               | 135                 |
| GEOM MEAN            |      |                 |                     | 246.6                | 0.93             | 22.562           | 17.152           | 583.8              | 0.003            |                    | 49                  |
| MINIMUM              |      | 0.30            |                     | 193.0                | 0.35             | 18.750           | 10.500           | 473.0              | 0.001            | 13.0               | 8                   |
| STD DEV (GEOM *)     |      |                 |                     | 45.6                 | 0.56             | 4.796            | 3.840            | 89.2               | 0.009            |                    | 4*                  |
| # SAMP IN STATISTICS |      | 12              |                     | 11                   | 12               | 4                | 8                | 12                 | 7                | 1                  | 11                  |
| % SAMP (EXCLUDED)    |      |                 |                     |                      |                  |                  |                  |                    |                  |                    |                     |

| *=INTERIM TEST-NAME: |      | FMSF                    | FWSTRC | FWTEMP        | NNHTUR         | NN02UR   | NN03UR   | NNTKUR            | PBUT     | PH     | PP04UR   |        |
|----------------------|------|-------------------------|--------|---------------|----------------|----------|----------|-------------------|----------|--------|----------|--------|
|                      |      | FECAL<br>STREPCUS<br>MF |        |               | NH3-N<br>TOTAL | NO2-N    | NO3-N    | K'DAHL N<br>TOTAL | LEAD     |        | P04      |        |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>CNT           | STREAM | WATER<br>TEMP | UNF.REAC       | UNF.REAC | UNF.REAC | UNF.REAC          | UNF.TOT. |        | UNF.REAC |        |
| YYMMDD               | LMT  | NUMBER                  | COND.  | DEG.C         | MG/L           | MG/L     | MG/L     | MG/L              | MG/L     | AS PB  | MG/L     |        |
|                      |      | /100ML                  |        |               | AS N           | AS N     | AS N     | AS N              |          |        | AS P     |        |
| 870105               | 1120 | 37408                   | 4<     | 8             | 1.0            | 0.005<   | 0.010    | 3.800             | 0.550    | 0.003< | 8.21     | 0.005  |
| 870202               | 1130 | 37424                   | 84     | 4 8           | 1.5            | 0.150    | 0.020    | 3.600             | 0.640    | 0.003< | 7.79     | 0.016  |
| 870303               | 1210 | 37440                   | 244    | 4 8           | 1.5            | 0.340    | 0.130    | 4.300             | 0.790    |        | 7.78     | 0.051  |
| 870406               | 1133 | 37456                   | 244    |               |                | 0.145    | 0.030    | 5.400             | 1.020    |        | 7.84     | 0.073  |
| 870504               | 1120 | 37472                   |        |               |                | 0.025    | 0.020    | 2.800             | 0.680    | 0.003< | 8.22     | 0.003  |
| 870601               | 1138 | 37488                   | 4<     | 8             | 26.0           | 0.025    | 0.040    | 0.700             | 0.830    | 0.003< | 8.22     | 0.007  |
| 870706               | 1119 | 37504                   | 4      |               |                | 0.095    | 0.040    | 2.700             | 0.940    |        | 7.97     | 0.011  |
| 870804               | 1116 | 37520                   | 10<    | 8             | 25.0           | 0.066    | 0.050    | 3.900             | 1.280    | 0.003< | 7.98     | 0.133  |
| 870908               | 1059 | 37536                   | 4<     | 8             | 23.0           | 0.080    | 0.020    | 0.400             | 0.750    | 0.003< | 8.27     | 0.010  |
| 871005               | 1118 | 37552                   | 16     | 8             | 13.0           | 0.010    | 0.010<   | 1.000             | 0.720    | 0.003< | 8.32     | 0.005  |
| 871102               | 1124 | 37568                   | 40     | 8             | 12.0           | 0.002    | 0.020    | 6.900             | 0.740    |        | 8.09     | 0.018  |
| 871207               | 1124 | 37584                   | 12     |               |                | 0.259    | 0.260    | 7.400             | 0.780    |        | 8.19     | 0.001< |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

197

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.16 WEST OF BRUSSELS  
 STATION TYPE: RIVER

STATION ID: 08-0056-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 46 18.21 LONG: 081 18 33.77

U T M: 17 0475100.0 4846350.0 4

REGION: 01

DISTANCE: 104.283

| *=-INTERIM           |  | TEST-NAME:       | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|------------------|--|---------------------------|----------------------------------|--|---|---|---|---|------|---|
|                      |  | MAXIMUM          | 244  |                           | 26.0                             | 0.340  | 0.260                                       | 7.400                                       | 1.280   |   | 8.32 | 0.133                                     |
|                      |  | ARITH MEAN       | 92   |                           | 12.9                             | 0.109  | 0.058                                       | 3.575                                       | 0.810   |   | 8.07 | 0.030                                     |
|                      |  | GEOM MEAN        |  |                           | 6.9                              |  |   | 2.674                                       | 0.791   |   | 8.07 |   |
|                      |  | MINIMUM          | 4  |                           | 1.0                              | 0.002  | 0.010                                       | 0.400                                       | 0.550   |   | 7.78 | 0.003                                     |
|                      |  | STD DEV (GEOM *) |  |                           | 10.8                             |  |   | 2.257                                       | 0.194   |   | 0.19 |   |
| # SAMP IN STATISTICS |  | 7                |  |                           | 8                                | 11   | 11  | 12  | 12  |   | 12   | 11  |
| % SAMP (EXCLUDED)    |  | 36               |  |                           |                                  | 8  | 8   |   |   |   |      | 8   |

| *=-INTERIM           |      | TEST-NAME:       | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|------------------|--|--|-----------------------------------|-------------------------|---|
| 870105               | 1120 | 37408            | 0.019  | 4<   | 5.0<                              | 1.55                    | 0.001                                     |
| 870202               | 1130 | 37424            | 0.039  |  | 5.0<                              | 3.60                    | 0.058                                     |
| 870303               | 1210 | 37440            | 0.079  | 4  | 6.4                               | 5.30                    |   |
| 870406               | 1133 | 37456            | 0.144  | 4<   | 23.2                              | 22.00                   |   |
| 870504               | 1120 | 37472            | 0.017  |  | 5.0<                              | 1.60                    | 0.002                                     |
| 870601               | 1138 | 37488            | 0.023  | 4<   | 5.0<                              | 2.10                    | 0.004                                     |
| 870706               | 1119 | 37504            | 0.022  |  | 5.0<                              | 1.65                    |   |
| 870804               | 1116 | 37520            | 0.160  | 8  | 5.5                               | 6.10                    | 0.003                                     |
| 870908               | 1059 | 37536            | 0.027  | 4<   | 5.0<                              | 1.95                    | 0.083                                     |
| 871005               | 1118 | 37552            | 0.012  | 4<   | 5.0<                              | 1.90                    | 0.072                                     |
| 871102               | 1124 | 37568            | 0.028  | 4<   | 5.0<                              | 1.40                    |   |
| 871207               | 1124 | 37584            | 0.038  | 4<   | 5.0<                              | 1.35                    |   |
|                      |      | MAXIMUM          | 0.160  | 8  | 23.2                              | 22.00                   | 0.083                                     |
|                      |      | ARITH MEAN       | 0.051  | 6  | 11.7                              | 4.21                    | 0.032                                     |
|                      |      | GEOM MEAN        | 0.035  |  |                                   | 2.71                    | 0.010                                     |
|                      |      | MINIMUM          | 0.012  | 4  | 5.5                               | 1.35                    | 0.001                                     |
|                      |      | STD DEV (GEOM *) | 0.051  |  |                                   | 5.82                    | 0.037                                     |
| # SAMP IN STATISTICS |      | 12               |  | 2  | 3                                 | 12                      | 7   |
| % SAMP (EXCLUDED)    |      |                  |  | 77   | 75                                |                         |   |

B.O.W./ SITE: LITTLE MAITLAND RIVER

STATION ID: 08-0056-035-02

SAMPLE POINT: GREY TWP. CONC II,2.5 KM.EAST OF JAMES- TOWN

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

STATION TYPE: RIVER

MINOR BASIN: LAKE HURON

002

TERM STREAM: MAITLAND RIVER

0530

LAT: 43 47 56.51 LONG: 081 10 13.08 U T M: 17 0486300.0 4849350.0 4 REGION: 01

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |      |        |          | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | UMHO/CM  | MF       | MF       |        | WATER  | UNF.REAC |
| DATE                 | HR   | DEPTH  | SUB-PROJ | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870105               | 1455 | 37415  | 0101     |          | 16.500   | 710.0    | 4<       | 4        | 8      | 1.0    | 0.005    |
| 870202               | 1452 | 37431  | 0101     |          | 14.000   | 655.0    | 24       | 4        | 4 8    | 2.0    | 0.130    |
| 870303               | 1554 | 37447  | 0101     |          | 19.000   | 630.0    | 152      | 136      | 4 8    | 2.0    | 0.670    |
| 870406               | 1525 | 37463  | 0101     |          | 10.500   | 483.0    | 104      | 116      |        |        | 0.065    |
| 870504               |      | 37479  | 0101     |          | 14.000   | 530.0    |          |          |        |        | 0.065    |
| 870601               | 1455 | 37495  | 0101     |          | 15.000   | 467.0    | 100      | 4        |        |        | 0.025    |
| 870706               | 1440 | 37511  | 0101     |          | 15.500   | 462.0    | 148      | 112      |        |        | 0.070    |
| 870804               | 1522 | 37527  | 0101     |          | 16.000   | 545.0    | 220      | 12       |        |        | 0.055    |
| 870908               | 1528 | 37543  | 0101     | 17.000   |          | 468.0    | 12       | 4<       |        |        | 0.065    |
| 871005               | 1525 | 37559  | 0101     | 18.040   |          | 520.0    | 76       | 36       |        |        | 0.005    |
| 871102               | 1520 | 37575  | 0101     | 20.800   |          | 690.0    | 48       | 20       | 8      | 13.0   | 0.005<   |
| 871207               | 1507 | 37591  | 0101     |          |          |          | 16       | 24       |        |        |          |
| MAXIMUM              |      | 0.30   |          | 20.800   | 19.000   | 710.0    | 220      | 136      |        | 13.0   | 0.670    |
| ARITH MEAN           |      | 0.30   |          | 18.613   | 15.062   | 560.0    | 90       | 47       |        | 4.5    | 0.115    |
| GEOM MEAN            |      |        |          | 18.546   | 14.877   | 553.1    |          |          |        | 2.7    |          |
| MINIMUM              |      | 0.30   |          | 17.000   | 10.500   | 462.0    | 12       | 4        |        | 1.0    | 0.005    |
| STD DEV (GEOM *)     |      |        |          | 1.964    | 2.441    | 94.2     |          |          |        | 5.7    |          |
| # SAMP IN STATISTICS |      | 12     |          | 3        | 8        | 11       | 10       | 10       |        | 4      | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 9        | 9        |        |        | 9        |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | RSP     | TURB     |      |
|----------------------|------|----------|----------|----------|-------|----------|----------|---------|----------|------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |       | P04      | PHOSPHOR |         |          |      |
|                      |      | UNF.REAC | UNF.REAC | TOTAL    |       | UNF.REAC | UNF.TOT. | RESIDUE |          |      |
|                      |      | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | PARTIC. |          |      |
| SAMPLE               |      | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | MG/L    | TURB'ITY |      |
| DATE                 | HR   |          |          |          |       |          |          |         | FTU      |      |
| YYMMDD               | LMT  | NUMBER   |          |          |       |          |          |         |          |      |
| 870105               | 1455 | 37415    | 0.010    | 4.000    | 0.550 | 8.28     | 0.004    | 0.017   | 5.0<     | 2.00 |
| 870202               | 1452 | 37431    | 0.020    | 4.100    | 0.610 | 7.93     | 0.016    | 0.035   | 5.0<     | 1.65 |
| 870303               | 1554 | 37447    | 0.070    | 4.300    | 1.270 | 7.84     | 0.079    | 0.119   | 5.0<     | 3.60 |
| 870406               | 1525 | 37463    | 0.030    | 4.800    | 0.840 | 8.05     | 0.052    | 0.120   | 8.1      | 7.20 |
| 870504               |      | 37479    | 0.030    | 3.100    | 0.640 | 8.39     | 0.001<   | 0.019   | 5.0<     | 1.23 |
| 870601               | 1455 | 37495    | 0.030    | 0.600    | 0.880 | 8.76     | 0.001<   | 0.033   | 5.0<     | 2.60 |
| 870706               | 1440 | 37511    | 0.010    | 0.500    | 0.700 | 8.33     | 0.004    | 0.026   | 5.0<     | 2.50 |
| 870804               | 1522 | 37527    | 0.040    | 2.000    | 1.080 | 8.24     | 0.025    | 0.066   | 9.6      | 6.00 |
| 870908               | 1528 | 37543    | 0.010    | 0.400    | 0.600 | 8.77     | 0.002    | 0.016   | 2.1      | 2.00 |
| 871005               | 1525 | 37559    | 0.010<   | 0.600    | 0.580 | 8.62     | 0.004    | 0.032   | 1.7      | 1.90 |
| 871102               | 1520 | 37575    | 0.020    | 4.900    | 0.700 | 8.23     | 0.001<   | 0.059   | 1.0      | 1.41 |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

199

B.O.W./ SITE: LITTLE MAITLAND RIVER

STATION ID: 08-0056-035-02

SAMPLE POINT: GREY TWP. CONC II, 2.5 KM.EAST OF JAMES- TOWN

STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: MAITLAND RIVER

0530

LAT: 43 47 56.51

LONG: 081 10 13.08

U T M: 17 0486300.0 4849350.0 4

REGION: 01

| *=-INTERIM TEST-NAME: |     | NNO2UR            | NNO3UR            | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR          | PPUT                 | RSP                | TURB            |
|-----------------------|-----|-------------------|-------------------|-----------------------------|------|-----------------|----------------------|--------------------|-----------------|
| SAMPLE                |     | NO2-N<br>UNF.REAC | NO3-N<br>UNF.REAC | UNF.REAC                    |      | P04<br>UNF.REAC | PHOSPHOR<br>UNF.TOT. | RESIDUE<br>PARTIC. | TURB'ITY<br>FTU |
| DATE                  | HR  | MG/L              | MG/L              | MG/L                        |      | MG/L            | MG/L                 | MG/L               |                 |
| YYMMDD                | LMT | AS N              | AS N              | AS N                        | PH   | AS P            | AS P                 |                    |                 |
| MAXIMUM               |     | 0.070             | 4.900             | 1.270                       | 8.77 | 0.079           | 0.120                | 9.6                | 7.20            |
| ARITH MEAN            |     | 0.027             | 2.664             | 0.768                       | 8.31 | 0.023           | 0.049                | 4.5                | 2.92            |
| GEOM MEAN             |     |                   | 1.823             | 0.741                       | 8.31 |                 | 0.039                |                    | 2.48            |
| MINIMUM               |     | 0.010             | 0.400             | 0.550                       | 7.84 | 0.002           | 0.016                | 1.0                | 1.23            |
| STD DEV (GEOM *)      |     |                   | 1.872             | 0.230                       | 0.31 |                 | 0.038                |                    | 1.95            |
| # SAMP IN STATISTICS  |     | 10                | 11                | 11                          | 11   | 8               | 11                   | 5                  | 11              |
| % SAMP (EXCLUDED)     |     | 9                 |                   |                             |      | 27              |                      | 54                 |                 |





## 1987 WATER QUALITY DATA REGION 1

201

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: HIGHWAY 21, PORT ALBERT  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD103

STATION ID: 08-0076-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STORET CODE: 02  
 002  
 0730

LAT: 43 52 41.94 LONG: 081 42 52.51 U T M: 17 0442590.0 4858390.0 4 REGION: 01 DISTANCE: 1.287

| *=INTERIM TEST-NAME: |            | FSMF<br>FECAL<br>STREPCUS<br>MF | FWSTRC          | FWTEMP        | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N  | NNO3UR<br>NO3-N  | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD     | PH   | PHNOL<br>PHENOLS |
|----------------------|------------|---------------------------------|-----------------|---------------|--------------------------|------------------|------------------|-----------------------------|------------------|------|------------------|
| SAMPLE<br>DATE       | HR<br>HOUR | SAMPLE<br>CNT                   | STREAM<br>COND. | WATER<br>TEMP | UNF.REAC<br>MG/L         | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L            | UNF.TOT.<br>MG/L | PH   | UNF-REAC<br>UG/L |
| YYMMDD               | LMT        | NUMBER                          | /100ML          | DEG.C         | AS N                     | AS N             | AS N             | AS N                        | AS PB            |      | PHENOL           |
|                      |            | MAXIMUM                         | 110             | 26.0          | 0.135                    | 0.090            | 3.600            | 0.820                       | 0.004            | 8.50 | 2.000            |
|                      |            | ARITH MEAN                      | 37              | 14.1          | 0.049                    | 0.029            | 2.245            | 0.563                       | 0.004            | 8.36 | 1.750            |
|                      |            | GEOM MEAN                       |                 | 7.9           |                          |                  | 1.988            | 0.551                       |                  | 8.36 |                  |
|                      |            | MINIMUM                         | 12              | 1.0           | 0.015                    | 0.010            | 0.600            | 0.430                       | 0.004            | 8.14 | 1.500            |
|                      |            | STD DEV (GEOM *)                |                 | 11.3          |                          |                  | 0.996            | 0.122                       |                  | 0.12 |                  |
|                      |            | # SAMP IN STATISTICS            | 8               | 8             | 7                        | 7                | 11               | 11                          | 1                | 11   | 2                |
|                      |            | % SAMP (EXCLUDED)               | 27              |               | 36                       | 36               |                  |                             | 83               |      | 77               |

| *=INTERIM TEST-NAME: |            | PP04UR               | PPUT                         | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSP             | TURB             | ZNUT          |
|----------------------|------------|----------------------|------------------------------|-----------------------------------|-----------------|------------------|---------------|
| SAMPLE<br>DATE       | HR<br>HOUR | UNF.REAC<br>MG/L     | PHOSPHOR<br>UNF.TOT.<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L        | TURB'ITY<br>FTU | UNF.TOT.<br>MG/L | ZINC<br>AS ZN |
| YYMMDD               | LMT        | AS P                 | AS P                         | /100ML                            |                 |                  |               |
| 870105               | 1340       | 37412                | 0.002                        | 0.015                             | 4<              | 32.7             | 11.40         |
| 870202               | 1404       | 37428                | 0.004                        | 0.015                             | 4<              | 9.3              | 6.60          |
| 870303               | 1425       | 37444                | 0.028                        | 0.075                             | 4<              | 33.0             | 29.00         |
| 870406               | 1415       | 37460                | 0.018                        | 0.070                             | 4<              | 40.9             | 36.00         |
| 870504               | 1355       | 37476                | 0.001<                       | 0.011                             | 4<              | 5.0<             | 4.40          |
| 870601               | 1340       | 37492                | 0.000<                       | 0.013                             | 4<              | 7.2              | 8.10          |
| 870706               | 1322       | 37508                | 0.006                        | 0.015                             | 16              | 5.6              | 7.90          |
| 870804               | 1402       | 37524                | 0.001<                       | 0.036                             | 4               | 29.6             | 24.00         |
| 870908               | 1427       | 37540                | 0.003                        | 0.018                             | 4<              | 8.4              | 10.90         |
| 871005               | 1400       | 37556                | 0.006                        | 0.028                             | 4<              | 6.2              | 7.80          |
| 871102               | 1344       | 37572                | 0.003                        | 0.012                             | 4<              | 5.0<             | 2.60          |
| 871207               | 1316       | 37588                |                              |                                   | 4<              |                  |               |
|                      |            | MAXIMUM              | 0.028                        | 0.075                             | 16              | 40.9             | 36.00         |
|                      |            | ARITH MEAN           | 0.009                        | 0.028                             | 10              | 19.2             | 13.52         |
|                      |            | GEOM MEAN            |                              | 0.022                             |                 |                  | 10.15         |
|                      |            | MINIMUM              | 0.002                        | 0.011                             | 4               | 5.6              | 2.60          |
|                      |            | STD DEV (GEOM *)     |                              | 0.023                             |                 |                  | 11.00         |
|                      |            | # SAMP IN STATISTICS | 8                            | 11                                | 2               | 9                | 11            |
|                      |            | % SAMP (EXCLUDED)    | 27                           |                                   | 81              | 18               | 6             |

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: CANNING STREET, VILLAGE OF LUCKNOW  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD102

STATION ID: 08-0076-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STORET CODE: 02  
 002  
 0730

LAT: 43 57 21.61 LONG: 081 31 02.46

U T M: 17 0458490.0 4866900.0 4

REGION: 01

DISTANCE: 25.749

| *=INTERIM            |      | TEST-NAME: | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|------------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |            |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      |            | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| DATE                 | HR   | SAMPLE     | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER     | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | AS N     |
|                      |      |            |        |          |          |          |          | /100ML   | /100ML   |        |        |          |
| 870105               | 1410 | 37413      | 0.30   | 0101     |          | 15.000   | 620.0    | 600>     | 12       | 8      | 1.0    | 0.005    |
| 870202               | 1441 | 37429      | 0.30   | 0101     |          | 27.500   | 635.0    | 504      | 84       | 4 8    | 2.0    | 0.040    |
| 870303               | 1501 | 37445      | 0.30   | 0101     |          | 17.500   | 535.0    | 600>     | 272      | 4 8    | 1.0    | 0.140    |
| 870406               | 1440 | 37461      | 0.30   | 0101     |          | 10.500   | 486.0    | 160      | 84       |        |        | 0.005    |
| 870504               | 1435 | 37477      | 0.30   | 0101     |          | 22.000   | 575.0    |          |          |        |        | 0.025    |
| 870601               | 1408 | 37493      | 0.30   | 0101     |          | 24.000   | 625.0    | 540      | 268      |        |        | 0.035    |
| 870706               | 1347 | 37509      | 0.30   | 0101     |          | 26.500   | 605.0    | 132      | 24       |        |        | 0.055    |
| 870804               | 1431 | 37525      | 0.30   | 0101     |          | 18.500   | 535.0    | 244      | 128      |        |        | 0.070    |
| 870908               | 1427 | 37541      | 0.30   | 0101     | 29.500   |          | 625.0    | 600>     | 176      |        |        | 0.030    |
| 871005               | 1430 | 37557      | 0.30   | 0101     | 30.100   |          | 650.0    | 930      | 256      |        |        | 0.025    |
| 871102               | 1435 | 37573      | 0.30   | 0101     | 21.180   |          | 615.0    | 416      | 296      | 8      | 13.0   | 0.009    |
| 871207               | 1410 | 37589      | 0.30   | 0101     |          |          |          | 252      | 88       |        |        |          |
| MAXIMUM              |      |            | 0.30   |          | 30.100   | 27.500   | 650.0    | 930      | 296      |        | 13.0   | 0.140    |
| ARITH MEAN           |      |            | 0.30   |          | 26.927   | 20.187   | 591.5    | 397      | 153      |        | 4.2    | 0.040    |
| GEOM MEAN            |      |            |        |          | 26.593   | 19.346   | 589.3    |          | 108      |        | 2.3    | 0.026    |
| MINIMUM              |      |            | 0.30   |          | 21.180   | 10.500   | 486.0    | 132      | 12       |        | 1.0    | 0.005    |
| STD DEV (GEOM *)     |      |            |        |          | 4.986    | 5.879    | 51.9     |          | 3*       |        | 5.9    | 0.039    |
| # SAMP IN STATISTICS |      |            | 12     |          | 3        | 8        | 11       | 8        | 11       |        | 4      | 11       |
| % SAMP (EXCLUDED)    |      |            |        |          |          |          |          | 27       |          |        |        |          |

| *=INTERIM |      | TEST-NAME: | NN02UR   | NN03UR   | NNTKUR   | PH   | PHNOL    | PP04UR   | PPUT     | PSAMF    | RSP     | TURB     |
|-----------|------|------------|----------|----------|----------|------|----------|----------|----------|----------|---------|----------|
|           |      |            | N02-N    | N03-N    | K'DAHL N |      | PHENOLS  | P04      | PHOSPHOR | PSEUDOMN |         |          |
| SAMPLE    |      |            | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF-REAC | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY |
| DATE      | HR   | SAMPLE     | MG/L     | MG/L     | MG/L     | PH   | UG/L     | MG/L     | MG/L     | MF       | PARTIC. | FTU      |
| YYMMDD    | LMT  | NUMBER     | AS N     | AS N     | AS N     |      | PHENOL   | AS P     | AS P     | CNT      | MG/L    |          |
|           |      |            |          |          |          |      |          |          |          | /100ML   |         |          |
| 870105    | 1410 | 37413      | 0.010<   | 2.700    | 0.440    | 8.42 |          | 0.002    | 0.015    | 4<       | 31.7    | 12.40    |
| 870202    | 1441 | 37429      | 0.010<   | 1.700    | 0.490    | 8.18 | 1.000<   | 0.004    | 0.021    | 4<       | 5.3     | 4.40     |
| 870303    | 1501 | 37445      | 0.090    | 2.600    | 0.710    | 7.95 |          | 0.028    | 0.058    | 4<       | 10.7    | 8.10     |
| 870406    | 1440 | 37461      | 0.010    | 1.800    | 0.570    | 8.11 |          | 0.013    | 0.039    | 4<       | 8.1     | 8.60     |
| 870504    | 1435 | 37477      | 0.020    | 1.600    | 0.480    | 8.33 |          | 0.001<   | 0.018    | 4<       | 5.0<    | 2.40     |
| 870601    | 1408 | 37493      | 0.030    | 0.800    | 0.590    | 8.31 |          | 0.003    | 0.028    | 4<       | 5.0<    | 3.10     |
| 870706    | 1347 | 37509      | 0.010    | 0.700    | 0.510    | 8.27 |          | 0.008    | 0.019    | 4<       | 5.0<    | 2.00     |
| 870804    | 1431 | 37525      | 0.010    | 0.500    | 0.510    | 8.32 |          | 0.001<   | 0.024    | 4<       | 5.0<    | 2.60     |
| 870908    | 1427 | 37541      | 0.030    | 0.600    | 0.430    | 8.46 |          | 0.008    | 0.019    | 4<       | 5.0<    | 1.14     |
| 871005    | 1430 | 37557      | 0.010<   | 0.600    | 0.640    | 8.31 |          | 0.007    | 0.018    | 4        | 0.9     | 1.80     |
| 871102    | 1435 | 37573      | 0.010<   | 2.200    | 0.660    | 8.12 |          | 0.007    | 0.018    | 4<       | 5.0<    | 0.98     |
| 871207    | 1410 | 37589      |          |          |          |      |          |          |          | 4        |         |          |

( C O N T D )

## 203

**STATION ID: 08-0076-002-02**

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: LUCKNOW RIVER

**STORET CODE: 02  
002  
0730**

**LAT: 43 57 21.61    LONG: 081 31 02.46**

U T M: 17 0458490.0 4866900.0 4

**REGION: 01**

**DISTANCE: 25.749**

| *INTERIM |       | TEST-NAME:       | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PHNOL    | PPO4UR   | PPUT     | PSAMF    | RSP     | TURB     |
|----------|-------|------------------|----------|----------|----------|------|----------|----------|----------|----------|---------|----------|
|          |       |                  | N02-N    | N03-N    | K'DAHL N |      |          |          |          | PSEUDOMN |         |          |
|          |       |                  | UNF.REAC | UNF.REAC | UNF.REAC |      | PHENOLS  | P04      | PHOSPHOR | AERUG.   |         |          |
| SAMPLE   |       |                  | MG/L     | MG/L     | MG/L     |      | UNF-REAC | UNF.REAC | UNF.TOT. | MF       | RESIDUE |          |
| DATE     | HOURL | SAMPLE           |          |          |          |      | UG/L     | MG/L     | MG/L     | CNT      | PARTIC. | TURB'ITY |
| YYMMDD   | LMT   | NUMBER           | AS N     | AS N     | AS N     | PH   | PHENOL   | AS P     | AS P     | /100ML   | MG/L    | FTU      |
|          |       | MAXIMUM          | 0.090    | 2.700    | 0.710    | 8.46 |          | 0.028    | 0.058    | 4        | 31.7    | 12.40    |
|          |       | ARITH MEAN       | 0.029    | 1.436    | 0.548    | 8.25 |          | 0.009    | 0.025    | 4        | 11.3    | 4.32     |
|          |       | GEOM MEAN        |          | 1.203    | 0.541    | 8.25 |          |          | 0.023    |          |         | 3.14     |
|          |       | MINIMUM          | 0.010    | 0.500    | 0.430    | 7.95 |          | 0.002    | 0.015    | 4        | 0.9     | 0.98     |
|          |       | STD DEV (GEOM *) |          | 0.836    | 0.093    | 0.15 |          |          | 0.013    |          |         | 3.73     |
| #        | SAMP  | IN STATISTICS    | 7        | 11       | 11       | 11   |          | 9        | 11       | 2        | 5       | 11       |
| %        | SAMP  | (EXCLUDED)       | 36       |          |          |      |          | 18       |          | 81       | 54      |          |

B.O.W./ SITE: LITTLE SAUBLE RIVER  
 SAMPLE POINT: AT INVERHURON PROVINCIAL PARK MOE SWA1  
 STATION TYPE: RIVER

STATION ID: 08-0113-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LITTLE SAUBLE RIVER

STORET CODE: 02  
 002  
 1110

LAT: 44 17 53.83 LONG: 081 34 43.77 U T M: 17 0453825.0 4904950.0 4 REGION: 01 DISTANCE: 1.931

| *=INTERIM TEST-NAME: |       | FWSADP | FGPROJ | CLIDUR | CLIDUR   | COND25   | CO60     | CS134    | CS137  | CS60   | FCMF     |        |
|----------------------|-------|--------|--------|--------|----------|----------|----------|----------|--------|--------|----------|--------|
|                      |       |        |        |        |          |          |          |          |        |        | FECAL    |        |
|                      |       |        |        |        |          |          |          |          |        |        | COLIFORM |        |
|                      |       |        |        |        |          |          |          |          |        |        | MF       |        |
|                      |       |        |        |        |          |          |          |          |        |        | CNT      |        |
|                      |       |        |        |        |          |          |          |          |        |        | /100ML   |        |
| SAMPLE DATE          | YMMDD | TIME   | NUMBER | DEPTH  | PROJECT  | CHLORIDE | CHLORIDE | CONDUCT. | COBALT | CESIUM | CESIUM   | IODINE |
| YMMDD                | LMT   |        |        | M      | SUB-PROJ | UNF.REAC | UNF.REAC | 25C      | 60     | 134    | 137      | 131    |
|                      |       |        |        |        | CODE     | MG/L     | MG/L     | UMHO/CM  | BQ/L   | BQ/L   | BQ/L     | BQ/L   |
|                      |       |        |        |        |          | AS CL    | AS CL-   | AT 25 C  |        |        |          |        |
| 870203               | 1335  |        | 36700  | 0.30   | 0101     |          | 25.000   | 625.0    |        |        |          |        |
| 870407               | 1430  |        | 36701  | 0.30   | 0101     |          | 19.500   | 540.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 870512               | 1400  |        | 36702  | 0.30   | 0101     |          | 18.500   | 585.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 870609               | 1300  |        | 36703  | 0.30   | 0101     |          | 18.500   | 535.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 870714               | 1300  |        | 36704  | 0.30   | 0101     | 19.500   |          | 580.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 870827               | 1400  |        | 36705  | 0.30   | 0101     | 27.000   |          | 570.0    |        | 0.3<   | 0.3<     | 0.3<   |
| 871001               | 1445  |        | 36706  | 0.30   | 0101     | 31.270   |          | 510.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 871028               | 1445  |        | 36707  | 0.30   | 0101     | 17.400   |          | 479.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 871130               | 1700  |        | 36708  | 0.30   | 0101     | 13.970   |          | 369.0    | 0.3<   | 0.3<   | 0.3<     |        |
| 871217               | 1615  |        | 36709  | 0.30   | 0101     | 25.010   |          | 555.0    | 0.3<   | 0.3<   | 0.3<     |        |
| MAXIMUM              |       |        | 0.30   |        |          | 31.270   | 25.000   | 625.0    |        |        |          | 3900   |
| ARITH MEAN           |       |        | 0.30   |        |          | 22.358   | 20.375   | 534.8    |        |        |          | 732    |
| GEOM MEAN            |       |        |        |        |          | 21.548   | 20.211   | 529.9    |        |        |          |        |
| MINIMUM              |       |        | 0.30   |        |          | 13.970   | 18.500   | 369.0    |        |        |          | 12     |
| STD DEV (GEOM *)     |       |        |        |        |          | 6.498    | 3.119    | 71.2     |        |        |          |        |
| # SAMP IN STATISTICS |       |        | 10     |        |          | 6        | 4        | 10       |        |        |          | 8      |
| % SAMP (EXCLUDED)    |       |        |        |        |          |          |          |          |        |        |          | 11     |

| *=INTERIM TEST-NAME: |       | FSMF     | FWTEMP | GACP     | GBCP     | HH3      | II131    | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   |        |
|----------------------|-------|----------|--------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
|                      |       | FECAL    |        |          |          |          |          | NH3-N    | NO2-N    | NO3-N    | K'DAHL N |        |
|                      |       | STREPCUS |        | GROSS    | GROSS    |          |          | TOTAL    | TOTAL    | TOTAL    | TOTAL    |        |
|                      |       | MF       | WATER  | ALPHA CT | BETA CT  | TRITIUM  | IODINE   | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |        |
|                      |       | CNT      | TEMP   | UNDISSOL | UNDISSOL | HYDROG-3 | 131      | MG/L     | MG/L     | MG/L     | MG/L     |        |
|                      |       | /100ML   | DEG.C  | BQ/L     | BQ/L     | BQ/L     | BQ/L     | AS N     | AS N     | AS N     | AS N     |        |
| SAMPLE DATE          | YMMDD | TIME     | NUMBER | DEPTH    | PROJECT  | CHLORIDE | CHLORIDE | CONDUCT. | COBALT   | CESIUM   | CESIUM   | IODINE |
| YMMDD                | LMT   |          |        | M        | SUB-PROJ | UNF.REAC | UNF.REAC | 25C      | 60       | 134      | 137      | 131    |
|                      |       |          |        |          | CODE     | MG/L     | MG/L     | UMHO/CM  | BQ/L     | BQ/L     | BQ/L     | BQ/L   |
|                      |       |          |        |          |          | AS CL    | AS CL-   | AT 25 C  |          |          |          |        |
| 870203               | 1335  |          | 36700  | 4<       |          |          |          |          |          | 0.075    | 0.010<   | 1.800  |
| 870407               | 1430  |          | 36701  | 20AID    | 11.5     | 0.10     | 0.15     | 63       | 0.3<     | 0.025    | 0.030    | 3.100  |
| 870512               | 1400  |          | 36702  | 16       | 12.0     | 0.12     | 0.17     | 75       | 0.3<     | 0.040    | 0.010    | 2.000  |
| 870609               | 1300  |          | 36703  | 84       | 11.5     | 0.07     | 0.09     | 60       | 0.3<     | 0.075    | 0.040    | 1.000  |
| 870714               | 1300  |          | 36704  | 16       | 17.0     | 0.08     | 0.20     | 13       | 0.3<     | 0.060    | 0.020    | 0.600  |
| 870827               | 1400  |          | 36705  | 36       | 17.0     | 0.04<    | 0.15     | 60       | 0.3<     | 0.170    | 0.020    | 0.200  |
| 871001               | 1445  |          | 36706  | 60AID    | 16.0     | 0.06     | 0.15     | 60       | 0.3<     | 0.105    | 0.010    | 0.300  |
| 871028               | 1445  |          | 36707  | 1400     | 12.0     | 0.04<    | 0.22     | 68       | 0.3<     | 0.041    | 0.010<   | 3.700  |
| 871130               | 1700  |          | 36708  | 20       | 10.0     | 0.04<    | 0.20     | 50       | 0.3<     | 0.030    | 0.010    | 2.300  |
| 871217               | 1615  |          | 36709  |          | 4.0      | 0.04     | 0.21     | 57       | 0.3<     | 0.005    | 0.010    | 2.200  |

( C O N T D )

B.O.W./ SITE: LITTLE SAUBLE RIVER  
 SAMPLE POINT: AT INVERHURON PROVINCIAL PARK MOE SWA1  
 STATION TYPE: RIVER

STATION ID: 08-0113-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LITTLE SAUBLE RIVER

STORET CODE: 02  
 002  
 1110

LAT: 44 17 53.83 LONG: 081 34 43.77 U T M: 17 0453825.0 4904950.0 4 REGION: 01 DISTANCE: 1.931

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWTEMP<br>WATER<br>TEMP<br>DEG.C | GACP<br>GROSS<br>ALPHA CT<br>UNDISSOL<br>BQ/L | GBCP<br>GROSS<br>BETA CT<br>UNDISSOL<br>BQ/L | HH3<br>TRITIUM<br>HYDROG-3<br>BQ/L | II131<br>IODINE<br>131<br>BQ/L | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |
|----------------------|--|--|----------------------------------|---|--|------------------------------------|--------------------------------|--|---|---|---|
|----------------------|--|--|----------------------------------|---|--|------------------------------------|--------------------------------|--|---|---|---|

|                      |      |      |      |      |    |       |       |       |       |
|----------------------|------|------|------|------|----|-------|-------|-------|-------|
| MAXIMUM              | 1400 | 17.0 | 0.12 | 0.22 | 75 | 0.170 | 0.040 | 3.700 | 1.120 |
| ARITH MEAN           | 207  | 12.3 | 0.08 | 0.17 | 56 | 0.063 | 0.019 | 1.720 | 0.687 |
| GEOM MEAN            |      | 11.5 |      | 0.17 | 52 | 0.045 |       | 1.224 | 0.650 |
| MINIMUM              | 16   | 4.0  | 0.04 | 0.09 | 13 | 0.005 | 0.010 | 0.200 | 0.330 |
| STD DEV (GEOM *)     |      | 4.1  |      | 0.04 | 18 | 0.048 |       | 1.182 | 0.238 |
| # SAMP IN STATISTICS | 8    | 9    | 6    | 9    | 9  | 10    | 8     | 10    | 10    |
| % SAMP (EXCLUDED)    | 11   |      | 33   |      |    |       | 20    |       |       |

| *=INTERIM TEST-NAME: |      | PH    | PP04UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TCMF<br>COLIFORM<br>TOTAL<br>MF<br>CNT<br>/100ML | TCMFBK<br>COLIFORM<br>TOTAL MF<br>BCKGRD<br>CNT<br>/100ML | TURB<br>TURB'ITY<br>FTU |       |
|----------------------|------|-------|---|--|--|-----------------------------------|--|---|-------------------------|-------|
| 870203               | 1335 | 36700 | 7.99                                      | 0.036  | 0.049  | 4<                                | 2.8  | 120   | 1800                    | 5.00  |
| 870407               | 1430 | 36701 | 8.34                                      | 0.046  | 0.195  | 4<                                | 71.1   | 10<   | 10<                     | 51.00 |
| 870512               | 1400 | 36702 | 8.07                                      | 0.008  | 0.015  | 4<                                | 6.2  | 180C  | 5600                    | 6.60  |
| 870609               | 1300 | 36703 | 7.95                                      | 0.024  | 0.043  | 4<                                | 14.8   | 1500  | 11600                   | 16.90 |
| 870714               | 1300 | 36704 | 7.88                                      | 0.004  | 0.062  | 4<                                | 18.7   | 8200C   | 83000                   | 16.90 |
| 870827               | 1400 | 36705 | 7.80                                      | 0.024  | 0.056  | 4<                                | 7.3  |   |                         | 9.30  |
| 871001               | 1445 | 36706 | 7.18                                      | 0.016  | 0.080  | 4<                                | 23.4   |   |                         | 33.00 |
| 871028               | 1445 | 36707 | 8.20                                      | 0.190  | 0.350  | 12C                               | 18.9   |   |                         | 30.00 |
| 871130               | 1700 | 36708 | 7.98                                      | 0.154  | 0.320  |                                   | 14.9   | 7700C   | 33000                   | 33.00 |
| 871217               | 1615 | 36709 | 8.25                                      | 0.082  | 0.114  |                                   | 5.0<   |   |                         | 3.90  |
| MAXIMUM              |      | 8.34  | 0.190                                     | 0.350  | 12   | 71.1                              | 8200   | 83000   | 51.00                   |       |
| ARITH MEAN           |      | 7.96  | 0.058                                     | 0.128  | 12   | 19.8                              | 3540   | 27000   | 20.56                   |       |
| GEOM MEAN            |      | 7.96  | 0.032                                     | 0.086  |  |                                   |  |   | 14.98                   |       |
| MINIMUM              |      | 7.18  | 0.004                                     | 0.015  | 12   | 2.8                               | 120  | 1800  | 3.90                    |       |
| STD DEV (GEOM *)     |      | 0.32  | 0.064                                     | 0.120  |  |                                   |  |   | 15.61                   |       |
| # SAMP IN STATISTICS | 10   | 10    | 10  | 10   | 1  | 9                                 | 5  | 5   | 10                      |       |
| % SAMP (EXCLUDED)    |      |       |   |  | 87   | 10                                | 16   | 16  |                         |       |

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: YONGE STREET, TOWN OF WALKERTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC002

STATION ID: 08-0123-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 04.79 LONG: 081 09 14.66 U T M: 17 0487675.0 4886625.0 4 REGION: 01 DISTANCE: 76.603

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC | FWTEMP |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        |        |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   |        | WATER  |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     | STREAM | TEMP   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     | COND.  | DEG.C  |
| 870119               | 1310 | 37910  | 0101     |          | 8.500    | 575.0    | 64       | 4<       | 22.200 | 6      | 1.0    |
| 870216               | 1330 | 37929  | 0101     |          | 10.000   | 680.0    | 80       | 12       | 16.000 | 6      | 1.0    |
| 870316               | 1335 | 37948  | 0101     |          | 8.500    | 535.0    | 4<       | 4        | 36.200 | 6      | 1.0    |
| 870421               | 1200 | 37967  | 0101     |          | 8.000    | 565.0    | 88       | 24       | 30.500 | 6      | 16.0   |
| 870525               | 1335 | 37986  | 0101     |          | 9.000    | 605.0    | 100      | 4        | 17.300 | 6      | 14.0   |
| 870615               | 1410 | 38005  | 0101     |          | 8.500    | 590.0    |          |          | 12.500 | 6      | 22.0   |
| 870720               | 1355 | 38024  | 0101     |          | 10.000   | 630.0    | 600>     | 336      | 24.100 |        |        |
| 870817               | 1300 | 38043  | 0101     |          | 9.500    | 575.0    | 408      | 140      | 13.900 |        |        |
| 870921               | 1300 | 38062  | 0101     | 10.390   |          | 645.0    | 140      | 236      | 11.500 | 6      | 17.0   |
| 871019               | 1400 | 38081  | 0101     | 9.440    |          | 705.0    |          |          | 9.330  | 6      | 9.0    |
| 871116               | 1310 | 38100  | 0101     | 9.260    |          | 545.0    | 60AID    | 10<      | 20.400 | 6      | 6.0    |
| MAXIMUM              |      | 0.30   |          | 10.390   | 10.000   | 705.0    | 408      | 336      | 36.200 |        | 22.0   |
| ARITH MEAN           |      | 0.30   |          | 9.697    | 9.000    | 604.5    | 134      | 108      | 19.448 |        | 9.7    |
| GEOM MEAN            |      |        |          | 9.684    | 8.973    | 602.4    |          |          | 17.946 |        | 5.5    |
| MINIMUM              |      | 0.30   |          | 9.260    | 8.000    | 535.0    | 60       | 4        | 9.330  |        | 1.0    |
| STD DEV (GEOM *)     |      |        |          | 0.607    | 0.756    | 54.7     |          |          | 8.331  |        | 7.9    |
| # SAMP IN STATISTICS |      | 11     |          | 3        | 8        | 11       | 7        | 7        | 11     |        | 9      |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 22       | 22       |        |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | TOTAL    | N02-N    | N03-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L    |
| 870119               | 1310 | 0.005<   | 0.010<   | 1.500    | 0.300    | 8.38 | 0.001<   | 0.011    | 4<       | 5.0<    |
| 870216               | 1330 | 0.035    | 0.010<   | 1.600    | 0.350    | 8.17 | 0.001<   | 0.010    | 4<       | 1.8     |
| 870316               | 1335 | 0.030    | 0.010<   | 1.600    | 0.420    | 8.28 | 0.005    | 0.017    | 4<       | 6.9     |
| 870421               | 1200 | 0.030    | 0.010    | 1.000    | 0.400    | 8.39 | 0.002    | 0.014    | 4<       | 5.0<    |
| 870525               | 1335 | 0.025    | 0.010<   | 0.900    | 0.310    | 8.35 | 0.001    | 0.014    | 4<       | 5.0<    |
| 870615               | 1410 | 0.020    | 0.010    | 0.800    | 0.390    | 8.32 | 0.001<   | 0.015    |          | 5.0<    |
| 870720               | 1355 | 0.055    | 0.010    | 0.100<   | 0.500    | 8.27 | 0.008    | 0.034    | 100      | 18.7    |
| 870817               | 1300 | 0.045    | 0.020    | 0.600    | 0.480    | 8.20 | 0.004    | 0.022    | 20       | 5.4     |
| 870921               | 1300 | 0.040    | 0.020    | 0.900    | 0.440    | 8.32 | 0.010    | 0.022    | 36       | 4.7     |
| 871019               | 1400 | 0.015    | 0.010<   | 1.100    | 0.330    | 8.10 | 0.007    | 0.011    |          | 5.0<    |
| 871116               | 1310 | 0.002    | 0.010    | 1.200    | 0.470    | 8.21 | 0.005    | 0.013    | 4        | 3.2     |

( C O N T D )

9.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: YONGE STREET, TOWN OF WALKERTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC002

STATION ID: 08-0123-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

| LAT: 44 08 04.79         |                     | LONG: 081 09 14.66       |                          | U T M: 17 0487675.0 4886625.0 4 |                             | REGION: 01               |                           | DISTANCE: 76.603           |                                |                                   |      |
|--------------------------|---------------------|--------------------------|--------------------------|---------------------------------|-----------------------------|--------------------------|---------------------------|----------------------------|--------------------------------|-----------------------------------|------|
| *=INTERIM                | TEST-NAME:          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N                 | NNTKUR<br>K'DAHL N<br>TOTAL | PH                       | PP04UR<br>P04<br>PHOSPHOR | PPUT<br>UNF.TOT.<br>AERUG. | PSAMF<br>PSEUDOMN<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |      |
| SAMPLE<br>DATE<br>YYMMDD | TIME<br>HOUR<br>LMT | SAMPLE<br>NUMBER         | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N        | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P   | UNF.TOT.<br>MG/L<br>AS P       | UNF.TOT.<br>MG/L<br>AS P          |      |
|                          |                     | MAXIMUM                  | 0.055                    | 0.020                           | 1.600                       | 0.500                    | 8.39                      | 0.010                      | 0.034                          | 100                               | 18.7 |
|                          |                     | ARITH MEAN               | 0.030                    | 0.013                           | 1.120                       | 0.399                    | 8.27                      | 0.005                      | 0.017                          | 40                                | 6.8  |
|                          |                     | GEOM MEAN                |                          |                                 |                             | 0.393                    | 8.27                      |                            | 0.016                          |                                   |      |
|                          |                     | MINIMUM                  | 0.002                    | 0.010                           | 0.600                       | 0.300                    | 8.10                      | 0.001                      | 0.010                          | 4                                 | 1.8  |
|                          |                     | STD DEV (GEOM *)         |                          |                                 |                             | 0.070                    | 0.09                      |                            | 0.007                          |                                   |      |
| #                        | SAMP IN STATISTICS  | 10                       | 6                        | 10                              | 11                          | 11                       | 8                         | 11                         | 4                              | 6                                 |      |
| %                        | SAMP (EXCLUDED)     | 9                        | 45                       | 9                               |                             |                          | 27                        |                            | 55                             | 45                                |      |

## 1987 WATER QUALITY DATA REGION 1

208

B.O.W./ SITE: SAUGEE RIVER  
 SAMPLE POINT: HIGHWAY 4, HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 05.10 LONG: 081 02 21.80

U T M: 17 0496850.0 4888475.0 4

REGION: 01

DISTANCE: 94.627

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | ALTK     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       |      |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|                      |      |        |        | ALK      | IODINE   | BOD      | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED |      |
|                      |      |        |        | TOTAL    | 131      | 5 DAY    | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   |      |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     |      |
| YYMMDD               | HOUR | NUMBER | M      | SUB-PROJ | AS CAC03 | AS CAC03 | AS O     | AS CL    | AS CL-   | AS CU    | AS O     |      |
| LMT                  |      |        |        | CODE     |          |          |          |          | AT 25 C  |          |          |      |
| 870119               | 1335 | 37911  | 0.30   | 0101     | 254.0    |          | 0.49     |          | 8.000    | 465.0    | 0.001<W  | 12.0 |
| 870316               | 1400 | 37949  | 0.30   | 0101     | 238.0    |          | 0.36     |          | 8.000    | 505.0    |          | 12.0 |
| 870421               | 1300 | 37968  | 0.30   | 0101     | 235.0    |          | 0.91     |          | 8.000    | 496.0    | 0.001    | 9.5  |
| 870525               | 1355 | 37987  | 0.30   | 0101     | 233.0    |          | 0.74     |          | 8.000    | 486.0    | 0.002    |      |
| 870615               | 1420 | 38006  | 0.30   | 0101     | 233.0    |          | 0.64     |          | 9.000    | 485.0    | 0.001    | 9.0  |
| 870720               | 1425 | 38025  | 0.30   | 0101     | 197.0    |          | 0.61     |          | 7.500    | 434.0    | 0.001    | 8.0  |
| 870817               | 1315 | 38044  | 0.30   | 0101     | 222.0    |          |          |          | 10.000   | 464.0    | 0.003    | 7.0  |
| 870921               | 1320 | 38063  | 0.30   | 0101     | 228.2    |          | 0.26     | 10.070   |          | 520.0    | 0.002    | 10.0 |
| 871019               | 1420 | 38082  | 0.30   | 0101     | 242.3    |          | 0.63     | 9.330    |          | 520.0    | 0.001    | 9.0  |
| 871116               | 1330 | 38101  | 0.30   | 0101     |          | 230.7    | 0.03     | 8.120    |          | 476.0    | 0.003    | 12.0 |
| MAXIMUM              |      | 0.30   |        |          | 254.0    | 230.7    | 0.91     | 10.070   | 10.000   | 520.0    | 0.003    | 12.0 |
| ARITH MEAN           |      | 0.30   |        |          | 231.4    | 230.7    | 0.52     | 9.173    | 8.357    | 485.1    | 0.002<A  | 9.8  |
| GEOM MEAN            |      |        |        |          | 230.9    |          | 0.39     | 9.137    | 8.322    | 484.4    | 0.001<A  | 9.7  |
| MINIMUM              |      | 0.30   |        |          | 197.0    | 230.7    | 0.03     | 8.120    | 7.500    | 434.0    | 0.001    | 7.0  |
| STD DEV (GEOM *)     |      |        |        |          | 15.7     |          | 0.27     | 0.984    | 0.852    | 26.9     | 0.001<A  | 1.8  |
| # SAMP IN STATISTICS |      | 10     |        |          | 9        | 1        | 9        | 3        | 7        | 10       | 9        | 9    |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          |          |          |          |      |

| *=INTERIM TEST-NAME: |      | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR | NN02UR | NN03UR | NNTKUR   | PBUT     | PH     |      |
|----------------------|------|----------|----------|--------|--------|--------|--------|--------|----------|----------|--------|------|
|                      |      | FECAL    | FECAL    |        |        | NH3-N  |        |        | K'DAHL N | LEAD     |        |      |
|                      |      | COLIFORM | STREPCUS |        |        | TOTAL  |        |        | TOTAL    | UNF.TOT. |        |      |
| SAMPLE               | DATE | DATE     | DATE     | DATE   | DATE   | DATE   | DATE   | DATE   | DATE     | DATE     | DATE   |      |
| YYMMDD               | HOUR | NUMBER   | NUMBER   | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER   | NUMBER   | NUMBER |      |
| LMT                  |      |          |          |        |        |        |        |        |          |          |        |      |
| 870119               | 1335 | 37911    | 80       | 20     | 6      | 1.0    | 0.005  | 0.010< | 1.100    | 0.260    | 0.003< | 8.34 |
| 870316               | 1400 | 37949    | 8        | 8      | 6      | 1.0    | 0.050  | 0.010< | 0.900    | 0.340    |        | 8.28 |
| 870421               | 1300 | 37968    | 40       | 12     | 6      | 12.0   | 0.020  | 0.010  | 0.700    | 0.340    | 0.003< | 8.27 |
| 870525               | 1355 | 37987    | 52       | 32     | 6      | 13.0   | 0.025  | 0.010< | 0.800    | 0.380    | 0.003< | 8.36 |
| 870615               | 1420 | 38006    |          |        | 6      | 22.0   | 0.030  | 0.010  | 0.800    | 0.360    | 0.003< | 8.36 |
| *870720              | 1425 | 38025    | 1500>    | 1320   | 6      | 23.0   | 0.040  | 0.010  | 0.100<   | 0.580    | 0.003< | 8.26 |
| 870817               | 1315 | 38044    | 352      | 210    | 6      | 22.0   | 0.040  | 0.020  | 0.600    | 0.440    | 0.003< | 8.27 |
| 870921               | 1320 | 38063    | 600>     | 352    | 6      | 17.0   | 0.035  | 0.030  | 0.900    | 0.340    | 0.003< | 8.40 |
| 871019               | 1420 | 38082    |          |        | 6      | 9.0    | 0.035  | 0.010< | 1.300    | 0.340    | 0.003< | 8.17 |
| 871116               | 1330 | 38101    | 60AID    | 30AID  | 6      | 6.0    | 0.015  | 0.020  | 0.600    | 0.390    | 0.003< | 8.25 |

( C O N T D )



B.O.W./ SITE: SAUGEEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 05.10 LONG: 081 02 21.80 U T M: 17 0496850.0 4888475.0 4 REGION: 01 DISTANCE: 94.627

| *=INTERIM TEST-NAME: |  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FMSF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   |
|----------------------|--|--|--|---------------------------|----------------------------------|--|---|---|---|---|------|
| MAXIMUM              |  | 352  | 1320   |                           | 23.0                             | 0.050  | 0.030                                       | 1.300                                       | 0.580   |   | 8.40 |
| ARITH MEAN           |  | 99   | 248  |                           | 12.6                             | 0.029  | 0.017                                       | 0.856                                       | 0.377   |   | 8.30 |
| GEOM MEAN            |  |  | 61   |                           | 8.3                              | 0.025  |   |   | 0.369   |   | 8.30 |
| MINIMUM              |  | 8  | 8  |                           | 1.0                              | 0.005  | 0.010                                       | 0.600                                       | 0.260   |   | 8.17 |
| STD DEV (GEOM *)     |  |  | 6*   |                           | 8.4                              | 0.013  |   |   | 0.085   |   | 0.07 |
| # SAMP IN STATISTICS |  | 6  | 8  |                           | 10                               | 10   | 6   | 9   | 10  |   | 10   |
| % SAMP (EXCLUDED)    |  | 25   |  |                           |                                  |  | 40  | 10  |   |   |      |

| *=INTERIM TEST-NAME: |      | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |        |
|----------------------|------|---|--|--|-----------------------------------|-------------------------|---|--------|
| 870119               | 1335 | 37911                                     | 0.001<                                       | 0.012  | 4<                                | 5.0<                    | 1.35                                      | 0.002  |
| 870316               | 1400 | 37949                                     | 0.004  | 0.013  | 4<                                | 4.6                     | 3.10                                      |        |
| 870421               | 1300 | 37968                                     | 0.001  | 0.015  | 4<                                | 5.0<                    | 3.40                                      | 0.001< |
| 870525               | 1355 | 37987                                     | 0.001<                                       | 0.012  | 4<                                | 5.0<                    | 2.30                                      | 0.008  |
| 870615               | 1420 | 38006                                     | 0.005  | 0.018  |                                   | 5.0<                    | 1.75                                      | 0.009  |
| 870720               | 1425 | 38025                                     | 0.008  | 0.032  | 48                                | 10.2                    | 7.80                                      | 0.003  |
| 870817               | 1315 | 38044                                     | 0.008  | 0.024  | 4<                                | 0.9                     | 2.10                                      | 0.004  |
| 870921               | 1320 | 38063                                     | 0.008  | 0.016  | 4                                 | 5.0<                    | 1.58                                      | 0.003  |
| 871019               | 1420 | 38082                                     | 0.010  | 0.017  |                                   | 5.0<                    | 1.66                                      | 0.002  |
| 871116               | 1330 | 38101                                     | 0.005  | 0.016  | 4<                                | 5.0<                    | 1.09                                      | 0.002  |
| MAXIMUM              |      | 0.010                                     | 0.032  | 48   | 10.2                              | 7.80                    | 0.009                                     |        |
| ARITH MEAN           |      | 0.006                                     | 0.017  | 26   | 5.2                               | 2.61                    | 0.004                                     |        |
| GEOM MEAN            |      |   | 0.017  |  |                                   | 2.20                    |   |        |
| MINIMUM              |      | 0.001                                     | 0.012  | 4  | 0.9                               | 1.09                    | 0.002                                     |        |
| STD DEV (GEOM *)     |      |   | 0.006  |  |                                   | 1.97                    |   |        |
| # SAMP IN STATISTICS |      | 8   | 10   | 2  | 3                                 | 10                      | 8   |        |
| % SAMP (EXCLUDED)    |      | 20  |  | 75   | 70                                |                         | 11  |        |

## 1987 WATER QUALITY DATA REGION 1

210

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: DOWNSTREAM FROM DAM, WEST OF TEESWATER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC104

STATION ID: 08-0123-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 43 59 57.50 LONG: 081 18 22.31

U T M: 17 0475450.0 4871625.0 4

REGION: 01

DISTANCE: 99.938

| *=INTERIM TEST-NAME: |       | FWSADP | FGPROJ | ALKT  | BOD5     | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     |
|----------------------|-------|--------|--------|-------|----------|----------|----------|----------|----------|----------|----------|
|                      |       |        |        |       | BOD      |          |          |          |          | FECAL    | FECAL    |
|                      |       |        |        | ALK   | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | COLIFORM | STREPCUS |
|                      |       |        |        | TOTAL | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | MF       | MF       |
| SAMPLE DATE          | YMMDD | HHMM   | TIME   | DEPTH | AS       | AS       | AS       | UMHO/CM  | MG/L     | CNT      | CNT      |
| DATE                 | YMMDD | HHMM   | TIME   | DEPTH | AS       | AS       | AS       | AT 25 C  | AS O     | /100ML   | /100ML   |
| 870119               | 0910  | 37901  | 0.30   | 0101  | 283.0    | 0.70     | 9.500    | 565.0    | 12.0     | 64       | 36       |
| 870216               | 0925  | 37920  | 0.30   | 0101  | 300.0    | 0.40     | 10.000   | 630.0    | 12.0     | 24       | 4        |
| 870316               | 0940  | 37939  | 0.30   | 0101  | 273.0    | 0.18     | 9.500    | 595.0    | 12.5     | 48       | 8        |
| 870421               | 0850  | 37958  | 0.30   | 0101  | 267.0    | 0.94     | 9.000    | 585.0    | 10.0     | 88       | 64       |
| 870525               | 0935  | 37977  | 0.30   | 0101  | 260.0    | 0.91     | 9.000    | 560.0    | 10.0     | 108      | 44       |
| 870615               | 0950  | 37996  | 0.30   | 0101  | 251.0    | 0.91     | 10.000   | 540.0    | 9.0      | 192      | 128      |
| 870720               | 0915  | 38015  | 0.30   | 0101  | 246.0    | 0.98     | 9.500    | 545.0    |          | 248      | 224      |
| 870817               | 0915  | 38034  | 0.30   | 0101  | 243.0    | 0.80     | 9.500    | 530.0    |          |          |          |
| 870921               | 0915  | 38053  | 0.30   | 0101  | 247.8    | 0.68     | 9.390    | 565.0    | 10.0     | 1500>    | 1500>    |
| 871019               | 0935  | 38072  | 0.30   | 0101  | 265.5    | 0.44     | 10.010   | 545.0    | 9.0      | 270      | 36       |
| 871116               | 0935  | 38091  | 0.30   | 0101  | 269.8    |          | 9.790    | 580.0    | 11.5     | 330AID   | 10<      |
| MAXIMUM              |       | 0.30   |        |       | 300.0    | 0.98     | 10.010   | 10.000   | 12.5     | 330      | 224      |
| ARITH MEAN           |       | 0.30   |        |       | 264.2    | 0.69     | 9.672    | 9.500    | 10.7     | 152      | 68       |
| GEOM MEAN            |       |        |        |       | 263.7    | 0.63     | 9.669    | 9.492    | 10.6     |          |          |
| MINIMUM              |       | 0.30   |        |       | 243.0    | 0.18     | 9.390    | 9.000    | 9.0      | 24       | 4        |
| STD DEV (GEOM *)     |       |        |        |       | 17.3     | 0.27     | 0.281    | 0.408    | 1.3      |          |          |
| # SAMP IN STATISTICS |       | 11     |        |       | 11       | 10       | 4        | 7        | 11       | 9        | 8        |
| % SAMP (EXCLUDED)    |       |        |        |       |          |          |          |          |          | 10       | 20       |

| *=INTERIM TEST-NAME: |       | FWSTRC | FWTEMP | NNHTUR | NNO2UR   | NNO3UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    |
|----------------------|-------|--------|--------|--------|----------|----------|----------|-------|----------|----------|----------|
|                      |       |        |        | NH3-N  | N02-N    | N03-N    | K'DAHL N |       | PO4      | PHOSPHOR | PSEUDOMN |
|                      |       |        |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | AERUG.   |
|                      |       |        |        | MG/L   | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | MF       |
| SAMPLE DATE          | YMMDD | HHMM   | TIME   | AS N   | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | CNT      |
| DATE                 | YMMDD | HHMM   | TIME   | AS N   | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   |
| 870119               | 0910  | 37901  | 6      | 1.0    | 0.020    | 0.010<   | 4.500    | 0.440 | 8.20     | 0.007    | 0.027    |
| 870216               | 0925  | 37920  | 6      | 1.0    | 0.055    | 0.010<   | 5.000    | 0.470 | 8.05     | 0.012    | 0.023    |
| 870316               | 0940  | 37939  | 6      | 1.0    | 0.030    | 0.010<   | 4.600    | 0.480 | 8.23     | 0.013    | 0.028    |
| 870421               | 0850  | 37958  | 6      | 15.0   | 0.020    | 0.040    | 3.900    | 0.670 | 8.13     | 0.020    | 0.046    |
| 870525               | 0935  | 37977  | 6      | 12.0   | 0.040    | 0.020    | 3.600    | 0.500 | 8.24     | 0.020    | 0.042    |
| 870615               | 0950  | 37996  | 6      | 21.0   | 0.050    | 0.060    | 2.900    | 0.620 | 8.32     | 0.051    | 0.069    |
| 870720               | 0915  | 38015  |        |        | 0.085    | 0.060    | 1.100    | 0.650 | 8.14     | 0.064    | 0.084    |
| 870817               | 0915  | 38034  |        |        | 0.050    | 0.050    | 1.900    | 0.640 | 8.07     | 0.039    | 0.076    |
| 870921               | 0915  | 38053  | 6      | 15.0   | 0.050    | 0.030    | 2.200    | 0.570 | 8.18     | 0.084    | 0.113    |
| 871019               | 0935  | 38072  | 6      | 9.0    | 0.011    | 0.010<   | 3.000    | 0.430 | 7.95     | 0.017    | 0.023    |
| 871116               | 0935  | 38091  | 6      | 5.0    | 0.005<   | 0.020    | 4.200    | 0.480 | 8.11     | 0.012    | 0.025    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

211

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: DOWNSTREAM FROM DAM, WEST OF TEESWATER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC104

STATION ID: 08-0123-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 43 59 57.50 LONG: 081 18 22.31

U T M: 17 0475450.0 4871625.0 4

REGION: 01

DISTANCE: 99.938

| *=INTERIM TEST-NAME:     |              | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH    | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML |    |
|--------------------------|--------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-------|---------------------------|------------------------------|--|----|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | PH    | UNF.REAC<br>MG/L<br>AS P  | UNF.TOT.<br>MG/L<br>AS P     |  |    |
| MAXIMUM                  |              |                  |                 | 21.0                     | 0.085                       | 0.060                       | 5.000                       | 0.670 | 8.32                      | 0.084                        | 0.113  | 32 |
| ARITH MEAN               |              |                  |                 | 8.9                      | 0.041                       | 0.040                       | 3.355                       | 0.541 | 8.15                      | 0.031                        | 0.051  | 11 |
| GEOM MEAN                |              |                  |                 | 5.2                      |                             |                             | 3.089                       | 0.534 | 8.15                      | 0.023                        | 0.043  |    |
| MINIMUM                  |              |                  |                 | 1.0                      | 0.011                       | 0.020                       | 1.100                       | 0.430 | 7.95                      | 0.007                        | 0.023  | 4  |
| STD DEV (GEOM *)         |              |                  |                 | 7.4                      |                             |                             | 1.245                       | 0.091 | 0.10                      | 0.025                        | 0.031  |    |
| # SAMP IN STATISTICS     |              |                  |                 | 9                        | 10                          | 7                           | 11                          | 11    | 11                        | 11                           | 11   | 4  |
| % SAMP (EXCLUDED)        |              |                  |                 |                          | 9                           | 36                          |                             |       |                           |                              |  | 60 |

| *=INTERIM TEST-NAME:     |              | RSP              | TURB                       |                 |
|--------------------------|--------------|------------------|----------------------------|-----------------|
| SAMPLE<br>DATE<br>YYMMDD | HOURL<br>LMT | SAMPLE<br>NUMBER | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU |
| 870119                   | 0910         | 37901            | 5.0<                       | 2.60            |
| 870216                   | 0925         | 37920            | 3.9                        | 3.10            |
| 870316                   | 0940         | 37939            | 4.8                        | 2.90            |
| 870421                   | 0850         | 37958            | 5.0<                       | 2.80            |
| 870525                   | 0935         | 37977            | 5.0<                       | 1.90            |
| 870615                   | 0950         | 37996            | 5.0<                       | 1.69            |
| 870720                   | 0915         | 38015            | 4.7                        | 2.90            |
| 870817                   | 0915         | 38034            | 5.4                        | 3.50            |
| 870921                   | 0915         | 38053            | 6.9                        | 5.20            |
| 871019                   | 0935         | 38072            | 5.0<                       | 1.33            |
| 871116                   | 0935         | 38091            | 5.0<                       | 1.36            |
| MAXIMUM                  |              | 6.9              | 5.20                       |                 |
| ARITH MEAN               |              | 5.1              | 2.66                       |                 |
| GEOM MEAN                |              |                  | 2.46                       |                 |
| MINIMUM                  |              | 3.9              | 1.33                       |                 |
| STD DEV (GEOM *)         |              |                  | 1.12                       |                 |
| # SAMP IN STATISTICS     |              | 5                | 11                         |                 |
| % SAMP (EXCLUDED)        |              | 54               |                            |                 |

B.O.W./ SITE: SAUGEEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, TOWN OF DURHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC014

STATION ID: 08-0123-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.62 LONG: 080 50 16.77

U T M: 17 0512950.0 4891650.0 4

REGION: 01

DISTANCE: 125.847

| *=INTERIM TEST-NAME: |      |       | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |         |         |      |     |
|----------------------|------|-------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|------|-----|
|                      |      |       |                      |        | ALK      | 5 DAY    |          |          |          |          |          | FECAL    |         |         |      |     |
|                      |      |       |                      |        | TOTAL    | TOT.DEM. | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |         |         |      |     |
|                      |      |       |                      |        | MG/L     | MG/L     | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |         |         |      |     |
|                      |      |       |                      |        | AS CAC03 | AS O     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |         |         |      |     |
|                      |      |       |                      |        |          |          | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |         |         |      |     |
| SAMPLE               | DATE | YMMDD | TIME                 | NUMBER | DEPTH    | M        | CODE     |          |          |          |          |          |         |         |      |     |
| 870120               | 0805 |       |                      | 37913  | 0.30     |          | 0101     | 252.0    | 0.74     |          | 8.000    | 485.0    | 0.001<W | 11.0    | 312  |     |
| 870217               | 0810 |       |                      | 37932  | 0.30     |          | 0101     | 262.0    | 0.32     |          | 9.000    | 540.0    | 0.001<W | 12.5    | 600> |     |
| 870317               | 0830 |       |                      | 37951  | 0.30     |          | 0101     | 218.0    | 0.54     |          | 8.000    | 404.0    | 0.001   | 12.0    | 32   |     |
| 870422               | 0745 |       |                      | 37970  | 0.30     |          | 0101     | 209.0    | 0.95     |          | 8.000    | 434.0    | 0.002   | 9.0     | 12   |     |
| 870526               | 0800 |       |                      | 37989  | 0.30     |          | 0101     | 222.0    | 0.73     |          | 7.500    | 451.0    | 0.003   | 10.0    | 92   |     |
| 870616               | 0720 |       |                      | 38008  | 0.30     |          | 0101     | 216.0    | 0.84     |          | 7.500    | 357.0    | 0.001   |         |      |     |
| 870721               | 0720 |       |                      | 38027  | 0.30     |          | 0101     | 195.0    | 0.65     |          | 9.000    | 420.0    | 0.001<  | 7.5     | 204  |     |
| 870818               | 0730 |       |                      | 38046  | 0.30     |          | 0101     | 209.0    | 0.47     |          | 14.000   | 432.0    | 0.003   | 8.0     | 80   |     |
| 870922               | 0730 |       |                      | 38065  | 0.30     |          | 0101     | 216.9    | 0.27     | 11.350   |          | 461.0    | 0.002   | 9.0     | 170  |     |
| 871020               | 0825 |       |                      | 38084  | 0.30     |          | 0101     | 237.2    | 0.51     | 11.410   |          | 495.0    | 0.001<  | 9.5     |      |     |
| 871117               | 0820 |       |                      | 38103  | 0.30     |          | 0101     | 207.9    | 0.67     | 8.630    |          | 451.0    | 0.002   | 11.0    | 188  |     |
|                      |      |       | MAXIMUM              | 0.30   |          |          |          | 262.0    | 0.95     | 11.410   |          | 14.000   | 540.0   | 0.003   | 12.5 | 312 |
|                      |      |       | ARITH MEAN           | 0.30   |          |          |          | 222.3    | 0.61     | 10.463   |          | 8.875    | 448.2   | 0.002<A | 9.9  | 136 |
|                      |      |       | GEOM MEAN            |        |          |          |          | 221.5    | 0.57     | 10.378   |          | 8.695    | 445.8   |         | 9.8  |     |
|                      |      |       | MINIMUM              | 0.30   |          |          |          | 195.0    | 0.27     | 8.630    |          | 7.500    | 357.0   | 0.001   | 7.5  | 12  |
|                      |      |       | STD DEV (GEOM *)     |        |          |          |          | 20.2     | 0.21     | 1.588    |          | 2.151    | 48.7    |         | 1.7  |     |
|                      |      |       | # SAMP IN STATISTICS | 11     |          |          |          | 11       | 11       | 3        |          | 8        | 11      |         | 9    | 8   |
|                      |      |       | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          |          |          |         |         | 18   | 11  |
| *=INTERIM TEST-NAME: |      |       | FSMF                 | FWSTRC | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |         |         |      |     |
|                      |      |       | FECAL                |        |          | NH3-N    |          |          | K'DAHL N |          |          |          |         |         |      |     |
|                      |      |       | STREPCUS             |        |          | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | PO4      |         |         |      |     |
|                      |      |       | MF                   |        |          | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |         |         |      |     |
|                      |      |       | CNT                  |        |          | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     |         |         |      |     |
|                      |      |       | /100ML               | STREAM | TEMP     | AS N     | AS N     | AS N     | AS N     | AS PB    | PH       | AS P     |         |         |      |     |
| 870120               | 0805 |       |                      | 37913  | 44       | 6        | 1.0      | 0.010    | 0.010<   | 0.700    | 0.310    | 0.003<   | 8.25    | 0.001   |      |     |
| 870217               | 0810 |       |                      | 37932  | 144      | 6        | 1.0      | 0.055    | 0.010<   | 0.600    | 0.300    | 0.003<   | 8.09    | 0.003   |      |     |
| 870317               | 0830 |       |                      | 37951  | 36       | 6        | 1.0      | 0.015    | 0.010<   | 0.400    | 0.420    | 0.003<   | 8.23    | 0.003   |      |     |
| 870422               | 0745 |       |                      | 37970  | 8        | 6        | 13.0     | 0.040    | 0.010    | 0.200    | 0.390    | 0.003<   | 8.34    | 0.001<  |      |     |
| 870526               | 0800 |       |                      | 37989  | 28       | 6        | 13.0     | 0.025    | 0.010<   | 0.300    | 0.430    | 0.003<   | 8.34    | 0.001<  |      |     |
| 870616               | 0720 |       |                      | 38008  |          |          |          | 0.040    | 0.010<   | 0.400    | 0.530    | 0.003<   | 8.33    | 0.002   |      |     |
| 870721               | 0720 |       |                      | 38027  | 112      | 6        | 23.0     | 0.040    | 0.010    | 0.100<   | 0.510    | 0.003<   | 8.28    | 0.003   |      |     |
| 870818               | 0730 |       |                      | 38046  | 80       | 6        | 21.0     | 0.035    | 0.010    | 0.500    | 0.480    | 0.003<   | 8.17    | 0.011   |      |     |
| 870922               | 0730 |       |                      | 38065  | 140      | 6        | 15.0     | 0.010    | 0.010    | 0.700    | 0.300    | 0.003<   | 8.34    | 0.001<  |      |     |
| 871020               | 0825 |       |                      | 38084  |          | 6        | 9.0      | 0.010    | 0.010<   | 0.900    | 0.290    | 0.004    | 8.12    | 0.007   |      |     |
| 871117               | 0820 |       |                      | 38103  | 8        | 6        | 6.0      | 0.007    | 0.010<   | 0.200    | 0.430    | 0.003<   | 8.23    | 0.005   |      |     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

213

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, TOWN OF DURHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC014

STATION ID: 08-0123-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.62 LONG: 080 50 16.77 U T M: 17 0512950.0 4891650.0 4 REGION: 01 DISTANCE: 125.847

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>MG/L<br>AS PB | PH<br>PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|-------------------------------|----------|---|
| MAXIMUM              |  | 144  |                           | 23.0                             | 0.055  | 0.010                                       | 0.900                                       | 0.530   | 0.004                         | 8.34     | 0.011                                     |
| ARITH MEAN           |  | 67   |                           | 10.3                             | 0.026  | 0.010                                       | 0.490                                       | 0.399   | 0.004                         | 8.25     | 0.004                                     |
| GEOM MEAN            |  | 43   |                           | 6.1                              | 0.021  |   |   | 0.390   |                               | 8.25     |   |
| MINIMUM              |  | 8  |                           | 1.0                              | 0.007  | 0.010                                       | 0.200                                       | 0.290   | 0.004                         | 8.09     | 0.001                                     |
| STD DEV (GEOM *)     |  | 3*   |                           | 8.1                              | 0.017  |   |   | 0.088   |                               | 0.09     |   |
| # SAMP IN STATISTICS |  | 9  |                           | 10                               | 11   | 4   | 10  | 11  | 1                             | 11       | 8   |
| % SAMP (EXCLUDED)    |  |  |                           |                                  |  | 63  | 9   |   | 90                            |          | 27  |

| *=INTERIM TEST-NAME: |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |        |
|----------------------|------|--|--|-----------------------------------|-------------------------|---|--------|
| 870120               | 0805 | 37913  | 0.010  | 4<                                | 5.0<                    | 1.00                                      | 0.004  |
| 870217               | 0810 | 37932  | 0.009  | 12                                | 1.0                     | 1.44                                      | 0.003  |
| 870317               | 0830 | 37951  | 0.011  | 4<                                | 2.1                     | 2.20                                      | 0.003  |
| 870422               | 0745 | 37970  | 0.015  | 4<                                | 5.0<                    | 2.60                                      | 0.006  |
| 870526               | 0800 | 37989  | 0.012  | 4                                 | 5.0<                    | 1.90                                      | 0.004  |
| 870616               | 0720 | 38008  | 0.015  |                                   | 5.0<                    | 2.90                                      | 0.007  |
| 870721               | 0720 | 38027  | 0.017  | 4                                 | 5.0                     | 4.20                                      | 0.001  |
| 870818               | 0730 | 38046  | 0.024  | 4<                                | 5.0<                    | 4.00                                      | 0.001< |
| 870922               | 0730 | 38065  | 0.017  | 4<                                | 5.0<                    | 3.00                                      | 0.003  |
| 871020               | 0825 | 38084  | 0.008  |                                   | 5.0<                    | 2.70                                      | 0.003  |
| 871117               | 0820 | 38103  | 0.010  | 4<                                | 5.0<                    | 1.85                                      | 0.002  |
| MAXIMUM              |      | 0.024  | 12   | 5.0                               | 4.20                    | 0.007                                     |        |
| ARITH MEAN           |      | 0.013  | 7  | 2.7                               | 2.53                    | 0.004                                     |        |
| GEOM MEAN            |      | 0.013  |  |                                   | 2.34                    |   |        |
| MINIMUM              |      | 0.008  | 4  | 1.0                               | 1.00                    | 0.001                                     |        |
| STD DEV (GEOM *)     |      | 0.005  |  |                                   | 0.99                    |   |        |
| # SAMP IN STATISTICS |      | 11   | 3  | 3                                 | 11                      | 10  |        |
| % SAMP (EXCLUDED)    |      |  | 66   | 72                                |                         | 9   |        |

B.O.W./ SITE: ROCKY SAUGEEN RIVER  
 SAMPLE POINT: AT CONCESSION ROAD SOUTHWEST OF MARKDALE  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC005

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STATION ID: 08-0123-006-02

STORET CODE: 02  
 002  
 1260

LAT: 44 18 14.36 LONG: 080 39 54.97

U T M: 17 0526700.0 4905475.0 4

REGION: 01

DISTANCE: 143.389

| *=INTERIM            |      | TEST-NAME: | FWSADP   | FGPROJ   | ALKT     | ASUT     | BOD5     | CCNAUR   | CDUT     | CLIDUR   | CLIDUR   | COND25   |
|----------------------|------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |            |          |          | ALK      | ARSENIC  | BOD      | CYANIDE  |          |          |          |          |
|                      |      |            |          |          | TOTAL    | UNF.TOT. | 5 DAY    | AVAIL    | CADMIUM  | CHLORIDE | CHLORIDE | CONDUCT. |
| SAMPLE               |      |            | SAMPLE   | PROJECT  | MG/L     | MG/L     | TOT.DEM. | UNF.REAC | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      |
| DATE                 | HR   | SAMPLE     | DEPTH    | SUB-PROJ |          |          | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          |
| YYMMDD               | LMT  | NUMBER     | M        | CODE     | AS CAC03 | AS AS    | AS O     | AS HCN   | AS CD    | AS CL    | AS CL-   | UMHO/CM  |
|                      |      |            |          |          |          |          |          |          |          |          |          | AT 25 C  |
| 870120               | 0910 | 37915      | 0.30     | 0101     | 271.0    | 0.001<   | 0.53     | 0.001<W  | 0.0003<  |          | 7.500    | 518.0    |
| 870217               | 0916 | 37934      | 0.30     | 0101     | 276.0    | 0.001<   | 0.28     | 0.001<W  | 0.0030<  |          | 8.000    | 545.0    |
| 870317               | 0915 | 37953      | 0.30     | 0101     | 262.0    | 0.001<   | 0.26     | 0.001<W  | 0.0003<  |          | 9.000    | 505.0    |
| 870422               | 0850 | 37972      | 0.30     | 0101     | 268.0    | 0.001<   | 0.98     | 0.001<W  | 0.0003<  |          | 8.000    | 555.0    |
| 870526               | 0920 | 37991      | 0.30     | 0101     | 265.0    | 0.001<   | 0.38     | 0.001<W  | 0.0003<  |          | 8.000    | 535.0    |
| 870616               | 0835 | 38010      | 0.30     | 0101     | 266.0    | 0.001<   | 0.69     | 0.001<W  | 0.0003<  |          | 7.500    | 530.0    |
| 870721               | 0835 | 38029      | 0.30     | 0101     | 204.0    | 0.001<   | 0.52     | 0.001<W  | 0.0003<  |          | 4.000    | 436.0    |
| 870818               | 0830 | 38048      | 0.30     | 0101     | 256.0    | 0.001<   | 0.80     | 0.001<W  | 0.0003<  |          | 9.000    | 495.0    |
| 870922               | 0850 | 38067      | 0.30     | 0101     | 264.2    | 0.001<   | 0.31     | 0.001<W  | 0.0003<  | 9.940    |          | 545.0    |
| 871020               | 0920 | 38086      | 0.30     | 0101     | 265.8    | 0.001<   | 0.22     | 0.001<W  | 0.0003<  | 7.560    |          | 525.0    |
| 871117               | 0915 | 38105      | 0.30     | 0101     | 258.2    | 0.001<   | 0.11     | 0.001<W  | 0.0003<  | 7.540    |          | 489.0    |
| MAXIMUM              |      |            | 0.30     |          | 276.0    |          | 0.98     | 0.001    |          | 9.940    | 9.000    | 555.0    |
| ARITH MEAN           |      |            | 0.30     |          | 259.7    |          | 0.46     | 0.001<A  |          | 8.347    | 7.625    | 516.2    |
| GEOM MEAN            |      |            |          |          | 258.9    |          | 0.39     | 0.001<A  |          | 8.275    | 7.434    | 515.1    |
| MINIMUM              |      |            | 0.30     |          | 204.0    |          | 0.11     | 0.001    |          | 7.540    | 4.000    | 436.0    |
| STD DEV (GEOM *)     |      |            |          |          | 19.3     |          | 0.27     | 0.000<A  |          | 1.380    | 1.575    | 34.0     |
| # SAMP IN STATISTICS |      |            | 11       |          | 11       |          | 11       | 11       |          | 3        | 8        | 11       |
| % SAMP (EXCLUDED)    |      |            |          |          |          |          |          |          |          |          |          |          |
| *=INTERIM            |      | TEST-NAME: | CRUT     | CUUT     | DO       | FCMF     | FEUT     | FSMF     | FWSTRC   | FWTEMP   | NIUT     | NNHTUR   |
|                      |      |            |          |          |          | FECAL    |          | FECAL    |          |          |          | NH3-N    |
|                      |      |            | CHROMIUM | COPPER   | DISOLVED | COLIFORM | IRON     | STREPCUS |          |          | NICKEL   | TOTAL    |
| SAMPLE               |      |            | UNF.TOT. | UNF.TOT. | OXYGEN   | MF       | UNF.TOT. | MF       |          | WATER    | UNF.TOT. | UNF.REAC |
| DATE                 | HR   | SAMPLE     | MG/L     | MG/L     | MG/L     | CNT      | MG/L     | CNT      |          | TEMP     | MG/L     | MG/L     |
| YYMMDD               | LMT  | NUMBER     | AS CR    | AS CU    | AS O     | /100ML   | AS FE    | /100ML   | STREAM   | DEG.C    | AS NI    | AS N     |
|                      |      |            |          |          |          |          |          |          | COND.    |          |          |          |
| 870120               | 0910 | 37915      | 0.001<   | 0.001    | 12.5     | 16       | 0.055    | 4<       | 6        | 1.0      | 0.002<   | 0.015    |
| 870217               | 0916 | 37934      | 0.005<   | 0.003<   | 13.0     | 36       | 0.031    | 4<       | 6        | 1.0      | 0.015<   | 0.005    |
| 870317               | 0915 | 37953      | 0.001<   | 0.001<W  | 12.5     | 4<       | 0.036    | 4<       | 6        | 1.0      | 0.002<   | 0.015    |
| 870422               | 0850 | 37972      | 0.001<   | 0.001<W  | 10.0     | 112      | 0.051    | 20       | 6        | 10.0     | 0.002<   | 0.035    |
| 870526               | 0920 | 37991      | 0.001<   | 0.001<W  | 10.0     | 28       | 0.035    | 8        | 6        | 11.0     | 0.002<   | 0.020    |
| 870616               | 0835 | 38010      | 0.001<   | 0.001<W  |          |          | 0.069    |          |          |          | 0.002<   | 0.040    |
| 870721               | 0835 | 38029      | 0.001<   | 0.001    | 8.0      | 600>     | 0.100    | 284      | 6        | 22.0     | 0.002<   | 0.060    |
| 870818               | 0830 | 38048      | 0.004    | 0.004    | 7.0      | 88       | 0.120    | 176      | 6        | 19.0     | 0.001<   | 0.060    |
| 870922               | 0850 | 38067      | 0.002    | 0.001    | 9.0      | 144      | 0.014    | 132      | 6        | 14.0     | 0.001<   | 0.025    |
| 871020               | 0920 | 38086      | 0.004    | 0.001    | 10.0     |          | 0.026    |          | 6        | 8.0      | 0.001<   | 0.010    |
| 871117               | 0915 | 38105      | 0.003    | 0.001<   | 11.5     | 4<       | 0.028    | 4<       | 6        | 6.0      | 0.001<   | 0.005<   |

## 215

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
002  
1260

**DISTANCE: 143.389**

| *INTERIM             |      | TEST-NAME: | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PHNOL    | PP04UR   | PPUT     | PSAMF    | P1PCBT     |
|----------------------|------|------------|----------|----------|----------|----------|------|----------|----------|----------|----------|------------|
|                      |      |            | NNO2-N   | NNO3-N   | NNTOTAL  | LEAD     |      | PHENOLS  | PO4      | PHOSPHOR | PSEUDOMN |            |
| SAMPLE               |      |            | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF-REAC | UNF.REAC | UNF.TOT. | AERUG.   |            |
| DATE                 | HOUR | SAMPLE     | MG/L     | MG/L     | MG/L     | MG/L     |      | UG/L     | MG/L     | MG/L     | MF       | PCB        |
| YYMMDD               | LMT  | NUMBER     | AS N     | AS N     | AS N     | AS PB    | PH   | PHENOL   | AS P     | AS P     | CNT      | TOTAL      |
|                      |      |            |          |          |          |          |      |          |          |          | /100ML   | NG/L       |
| 870120               | 0910 | 37915      | 0.010<   | 1.800    | 0.210    | 0.003<   | 8.21 | 1.000<   | 0.001<   | 0.006    | 4<       | 20<W       |
| 870217               | 0916 | 37934      | 0.010<   | 1.700    | 0.190    | 0.030<   | 8.07 |          | 0.001<   | 0.006    | 4<       | 20<W       |
| 870317               | 0915 | 37953      | 0.010<   | 1.600    | 0.240    | 0.003<   | 8.21 | 1.000<   | 0.002    | 0.007    | 4<       | 20<W       |
| 870422               | 0850 | 37972      | 0.010    | 1.500    | 0.330    | 0.003<   | 8.12 | 1.000<   | 0.001<   | 0.011    | 4<       | NO DATA/IS |
| 870526               | 0920 | 37991      | 0.010<   | 1.400    | 0.360    | 0.003<   | 8.19 | 1.000<   | 0.001<   | 0.008    | 4<       | 20<W       |
| 870616               | 0835 | 38010      | 0.010    | 1.400    | 0.390    | 0.003<   | 8.21 | 1.000<   | 0.001<   | 0.008    |          | 20<W       |
| 870721               | 0835 | 38029      | 0.010    | 0.100<   | 0.630    | 0.003<   | 8.09 |          | 0.003    | 0.021    | 12       | 20<W       |
| 870818               | 0830 | 38048      | 0.020    | 1.100    | 0.600    | 0.003    | 8.16 | 1.000<   | 0.005    | 0.036    | 4<       | 20<W       |
| 870922               | 0850 | 38067      | 0.010    | 1.300    | 0.210    | 0.003<   | 8.29 | 1.000<   | 0.002    | 0.004    | 4<       | 20<W       |
| 871020               | 0920 | 38086      | 0.010<   | 1.700    | 0.240    | 0.003<   | 8.09 |          | 0.008    | 0.020    |          | 20<W       |
| 871117               | 0915 | 38105      | 0.010<   | 1.200    | 0.280    | 0.003<   | 8.15 | 1.000<   | 0.003    | 0.008    | 4<       | 20<W       |
| MAXIMUM              |      |            | 0.020    | 1.800    | 0.630    | 0.003    | 8.29 |          | 0.008    | 0.036    | 12       | 20         |
| ARITH MEAN           |      |            | 0.012    | 1.470    | 0.335    | 0.003    | 8.16 |          | 0.004    | 0.012    | 12       | 20<A       |
| GEOM MEAN            |      |            |          |          | 0.308    |          | 8.16 |          |          | 0.010    |          | 20<A       |
| MINIMUM              |      |            | 0.010    | 1.100    | 0.190    | 0.003    | 8.07 |          | 0.002    | 0.004    | 12       | 20         |
| STD DEV (GEOM *)     |      |            |          |          | 0.153    |          | 0.07 |          |          | 0.010    |          | 0<A        |
| # SAMP IN STATISTICS |      |            | 5        | 10       | 11       | 1        | 11   |          | 6        | 11       | 1        | 10         |
| % SAMP (EXCLUDED)    |      |            | 54       | 9        |          | 90       |      |          | 45       |          | 88       |            |

( C O N T D )

B.O.W./ SITE: ROCKY SAUGEEN RIVER  
 SAMPLE POINT: AT CONCESSION ROAD SOUTHWEST OF MARKDALE  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC005

STATION ID: 08-0123-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 14.36 LONG: 080 39 54.97

U T M: 17 0526700.0 4905475.0 4

REGION: 01

DISTANCE: 143.389

| *=INTERIM TEST-NAME: |      | RSP     | TURB    | X3245    | ZNUT       |        |
|----------------------|------|---------|---------|----------|------------|--------|
|                      |      |         |         | 2,4,5    | ZINC       |        |
| SAMPLE               |      | RESIDUE |         | TRCHLORO | UNF.TOT.   |        |
| DATE                 | HOUR | SAMPLE  | PARTIC. | PHENOL   | MG/L       |        |
| YYMMDD               | LMT  | NUMBER  | MG/L    | FTU      | AS ZN      |        |
| 870120               | 0910 | 37915   | 5.0<    | 1.13     | 100<W      | 0.004  |
| 870217               | 0916 | 37934   | 0.8     | 2.00     | NO DATA IS | 0.006  |
| 870317               | 0915 | 37953   | 1.7     | 1.17     | 100<W      | 0.009  |
| 870422               | 0850 | 37972   | 5.0<    | 2.50     | 100<W      | 0.004  |
| 870526               | 0920 | 37991   | 5.0<    | 1.18     | 100<W      | 0.002  |
| 870616               | 0835 | 38010   | 5.0<    | 1.39     | NO DATA LA | 0.003  |
| 870721               | 0835 | 38029   | 3.4     | 2.50     | 100<W      | 0.003  |
| 870818               | 0830 | 38048   | 5.4     | 7.80     | 100<W      | 0.005  |
| 870922               | 0850 | 38067   | 5.0<    | 1.57     | 100<W      | 0.002< |
| 871020               | 0920 | 38086   | 5.0<    | 0.91     | 100<W      | 0.005  |
| 871117               | 0915 | 38105   | 5.0<    | 1.10     | 100<W      | 0.003  |
| MAXIMUM              |      | 5.4     | 7.80    | 100      | 0.009      |        |
| ARITH MEAN           |      | 2.8     | 2.11    | 100<A    | 0.004      |        |
| GEOM MEAN            |      |         | 1.70    | 100<A    |            |        |
| MINIMUM              |      | 0.8     | 0.91    | 100      | 0.002      |        |
| STD DEV (GEOM *)     |      |         | 1.97    | 0<A      |            |        |
| # SAMP IN STATISTICS |      | 4       | 11      | 9        | 10         |        |
| % SAMP (EXCLUDED)    |      | 63      |         |          | 9          |        |



B.O.W./ SITE: SAUGEEEN RIVER  
 SAMPLE POINT: AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY  
 STATION TYPE: RIVER

STATION ID: 08-0123-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 19 06.74 LONG: 081 16 48.95 U T M: 17 0477650.0 4907075.0 4 REGION: 01 DISTANCE: 35.083

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |          |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |          | BOD      |          |          |          |          |          | FECAL    |          |
|                      |      |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |          |
|                      |      |        |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |          |
|                      |      |        |        |          | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |          |
|                      |      |        |        |          | AS CAC03 | AS 0     | AS CL    | AT 25 C  | AS CU    | AS 0     | /100ML   |          |
| SAMPLE               | DATE | TIME   | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| YMMDD                | LMT  | NUMBER | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                      |      |        | M      | CODE     | AS CAC03 | AS 0     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS 0     | /100ML   |
| 870119               | 1055 | 37905  | 0.30   | 0101     | 264.0    | 0.77     |          | 9.500    | 590.0    | 0.001<W  | 13.0     | 56       |
| 870216               | 1115 | 37924  | 0.30   | 0101     | 272.0    | 0.34     |          | 10.500   | 650.0    | 0.001<W  | 12.5     | 12       |
| 870316               | 1125 | 37943  | 0.30   | 0101     | 238.0    | 0.37     | 9.500    |          | 510.0    | 0.001    | 12.0     | 4        |
| 870421               | 1035 | 37962  | 0.30   | 0101     | 229.0    | 1.04     |          | 9.500    | 540.0    | 0.002    | 9.5      | 24       |
| 870525               | 1125 | 37981  | 0.30   | 0101     | 230.0    | 0.68     |          | 9.000    | 565.0    | 0.002    | 10.0     | 36       |
| 870615               | 1155 | 38000  | 0.30   | 0101     | 220.0    | 0.83     |          | 9.500    | 560.0    | 0.002    | 9.0      |          |
| 870720               | 1120 | 38019  | 0.30   | 0101     | 202.0    | 0.94     |          | 9.500    | 575.0    | 0.002    | 6.0      | 340      |
| 870817               | 1055 | 38038  | 0.30   | 0101     | 188.0    | 0.90     |          | 10.000   | 479.0    | 0.003    | 6.0      | 284      |
| 870921               | 1100 | 38057  | 0.30   | 0101     | 207.9    | 0.45     | 12.460   |          | 655.0    | 0.003    | 9.5      | 240      |
| 871019               | 1140 | 38076  | 0.30   | 0101     | 235.3    | 0.62     | 11.370   |          | 660.0    | 0.002    | 8.5      | 36       |
| 871116               | 1110 | 38095  | 0.30   | 0101     | 233.1    | 0.31     | 10.920   |          | 510.0    | 0.003    | 11.5     | 100AID   |
| MAXIMUM              |      | 0.30   |        |          | 272.0    | 1.04     | 12.460   | 10.500   | 660.0    | 0.003    | 13.0     | 340      |
| ARITH MEAN           |      | 0.30   |        |          | 229.0    | 0.66     | 11.062   | 9.643    | 572.2    | 0.002<A  | 9.8      | 113      |
| GEOM MEAN            |      |        |        |          | 227.8    | 0.61     | 11.010   | 9.633    | 569.1    | 0.002<A  | 9.5      | 54       |
| MINIMUM              |      | 0.30   |        |          | 188.0    | 0.31     | 9.500    | 9.000    | 479.0    | 0.001    | 6.0      | 4        |
| STD DEV (GEOM *)     |      |        |        |          | 24.8     | 0.26     | 1.226    | 0.476    | 62.1     | 0.001<A  | 2.4      | 4*       |
| # SAMP IN STATISTICS |      | 11     |        |          | 11       | 11       | 4        | 7        | 11       | 11       | 11       | 10       |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          |          |          |          |          |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
|                      |      | MF       |        |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
|                      |      | CNT      |        |        | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
|                      |      | /100ML   |        |        | AS N     | AS N     | AS N     | AS N     | AS PB    |      | AS P     |
| SAMPLE               | DATE | TIME     | SAMPLE | STREAM | WATER    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. | PH   | UNF.REAC |
| YMMDD                | LMT  | NUMBER   | COND.  | TEMP   | DEG.C    | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
|                      |      |          |        |        |          | AS N     | AS N     | AS N     | AS N     |      | AS P     |
| 870119               | 1055 | 37905    | 4<     | 6      | 1.0      | 0.005    | 0.010<   | 1.600    | 0.360    | 8.39 | 0.001<   |
| 870216               | 1115 | 37924    | 4      | 6      | 1.0      | 0.015    | 0.010    | 1.500    | 0.340    | 8.12 | 0.001    |
| 870316               | 1125 | 37943    | 12     | 6      | 1.0      | 0.029    | 0.010<   | 1.700    | 0.470    | 8.23 | 0.006    |
| 870421               | 1035 | 37962    | 8      | 6      | 16.0     | 0.035    | 0.010    | 0.900    | 0.410    | 8.34 | 0.001    |
| 870525               | 1125 | 37981    | 4      | 6      | 14.0     | 0.025    | 0.010<   | 0.900    | 0.390    | 8.31 | 0.002    |
| 870615               | 1155 | 38000    |        | 6      | 23.0     | 0.040    | 0.010    | 0.700    | 0.440    | 8.28 | 0.003    |
| 870720               | 1120 | 38019    | 230    | 6      | 24.0     | 0.050    | 0.010    | 0.100<   | 0.460    | 8.28 | 0.005    |
| 870817               | 1055 | 38038    | 96     | 6      | 24.0     | 0.040    | 0.010    | 0.600    | 0.560    | 8.18 | 0.006    |
| 870921               | 1100 | 38057    | 144    | 6      | 17.0     | 0.025    | 0.010    | 0.700    | 0.380    | 8.33 | 0.002    |
| 871019               | 1140 | 38076    | 4<     | 6      | 10.0     | 0.015    | 0.010<   | 1.000    | 0.380    | 8.11 | 0.008    |
| 871116               | 1110 | 38095    | 20AID  | 6      | 5.0      | 0.005<   | 0.010    | 1.300    | 0.540    | 8.15 | 0.005    |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY  
 STATION TYPE: RIVER

STATION ID: 08-0123-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 19 06.74 LONG: 081 16 48.95 U T M: 17 0477650.0 4907075.0 4 REGION: 01 DISTANCE: 35.083

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|------|---|
| MAXIMUM              |  | 230  |                           | 24.0                             | 0.050  | 0.010                                       | 1.700                                       | 0.560   |   | 8.39 | 0.008                                     |
| ARITH MEAN           |  | 65   |                           | 12.4                             | 0.028  | 0.010                                       | 1.090                                       | 0.430   |   | 8.25 | 0.004                                     |
| GEOM MEAN            |  |  |                           | 7.2                              |  |   |   | 0.425   |   | 8.25 |   |
| MINIMUM              |  | 4  |                           | 1.0                              | 0.005  | 0.010                                       | 0.600                                       | 0.340   |   | 8.11 | 0.001                                     |
| STD DEV (GEOM *)     |  |  |                           | 9.3                              |  |   |   | 0.072   |   | 0.10 |   |
| # SAMP IN STATISTICS |  | 8  |                           | 11                               | 10   | 7   | 10  | 11  |   | 11   | 10  |
| % SAMP (EXCLUDED)    |  | 20   |                           |                                  | 9  | 36  | 9   |   |   |      | 9   |

| *=INTERIM TEST-NAME: |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|----------------------|------|--|--|-----------------------------------|-------------------------|---|-------|
| 870119               | 1055 | 37905  | 0.012  | 4<                                | 5.0<                    | 2.20                                      | 0.003 |
| 870216               | 1115 | 37924  | 0.012  | 4<                                | 1.6                     | 2.80                                      | 0.002 |
| 870316               | 1125 | 37943  | 0.030  | 4<                                | 29.5                    | 14.10                                     | 0.005 |
| 870421               | 1035 | 37962  | 0.015  | 4<                                | 5.0<                    | 4.90                                      | 0.002 |
| 870525               | 1125 | 37981  | 0.017  | 4<                                | 5.0<                    | 6.80                                      | 0.002 |
| 870615               | 1155 | 38000  | 0.066  |                                   | 7.3                     | 7.70                                      | 0.004 |
| 870720               | 1120 | 38019  | 0.032  | 4                                 | 17.0                    | 22.00                                     | 0.002 |
| 870817               | 1055 | 38038  | 0.034  | 4                                 | 11.7                    | 12.30                                     | 0.010 |
| 870921               | 1100 | 38057  | 0.018  | 4                                 | 8.1                     | 9.10                                      | 0.003 |
| 871019               | 1140 | 38076  | 0.012  | 4<                                | 5.0<                    | 2.70                                      | 0.003 |
| 871116               | 1110 | 38095  | 0.018  | 4<                                | 5.0<                    | 3.80                                      | 0.002 |
| MAXIMUM              |      | 0.066  | 4  | 29.5                              | 22.00                   | 0.010                                     |       |
| ARITH MEAN           |      | 0.024  | 4  | 12.5                              | 8.04                    | 0.003                                     |       |
| GEOM MEAN            |      | 0.021  |  |                                   | 6.24                    | 0.003                                     |       |
| MINIMUM              |      | 0.012  | 4  | 1.6                               | 2.20                    | 0.002                                     |       |
| STD DEV (GEOM *)     |      | 0.016  |  |                                   | 6.09                    | 0.002                                     |       |
| # SAMP IN STATISTICS |      | 11   | 3  | 6                                 | 11                      | 11  |       |
| % SAMP (EXCLUDED)    |      |  | 70   | 45                                |                         |   |       |

B.O.W./ SITE: NORTH SAUGEEN RIVER  
 SAMPLE POINT: AT ELDERSLIE TOWNSHIP ROAD 25 AND 26  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC013

STATION ID: 08-0123-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 17 44.29 LONG: 081 07 15.46

U T M: 17 0490350.0 4904500.0 4

REGION: 01

DISTANCE: 55.360

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               | DATE | SAMPLE | PROJECT  | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | NUMBER | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  |        | CODE     |          |          |          |          |          |          |          |          |
| 870119               | 1135 | 37906  | 0101     | 245.0    | 0.77     |          | 4.500    | 461.0    | 0.009    | 12.5     | 16       |
| 870216               | 1145 | 37925  | 0101     | 266.0    | 0.74     |          | 6.500    | 520.0    | 0.001<W  | 12.5     | 36       |
| 870316               | 1155 | 37944  | 0101     | 235.0    | 0.28     | 6.500    |          | 432.0    | 0.001<W  | 12.0     | 4        |
| 870421               | 1100 | 37963  | 0101     | 222.0    | 1.16     |          | 4.500    | 445.0    | 0.001    | 10.0     | 68       |
| 870525               | 1150 | 37982  | 0101     | 230.0    | 1.21     |          | 4.500    | 451.0    | 0.002    | 10.0     | 232      |
| 870615               | 1250 | 38001  | 0101     | 214.0    | 0.98     |          | 4.500    | 401.0    | 0.001    | 10.5     |          |
| 870720               | 1150 | 38020  | 0101     | 213.0    | 0.71     |          | 4.500    | 422.0    | 0.001    | 9.0      | 600>     |
| 870817               | 1125 | 38039  | 0101     | 199.0    | 0.90     |          | 6.000    | 396.0    | 0.003    | 7.0      | 1500>    |
| 870921               | 1120 | 38058  | 0101     | 213.5    | 0.37     | 4.760    |          | 444.0    | 0.002    | 9.5      | 320      |
| 871019               | 1254 | 38077  | 0101     | 219.5    | 0.81     | 5.380    |          | 441.0    | 0.001<   | 10.5     | 36       |
| 871116               | 1135 | 38096  | 0101     | 258.5    | 0.65     | 5.270    |          | 434.0    | 0.002    | 12.5     | 110AID   |
| MAXIMUM              |      | 0.30   |          | 266.0    | 1.21     | 6.500    | 6.500    | 520.0    | 0.009    | 12.5     | 320      |
| ARITH MEAN           |      | 0.30   |          | 228.7    | 0.78     | 5.477    | 5.000    | 440.6    | 0.002<A  | 10.5     | 103      |
| GEOM MEAN            |      |        |          | 227.8    | 0.72     | 5.442    | 4.942    | 439.6    |          | 10.4     |          |
| MINIMUM              |      | 0.30   |          | 199.0    | 0.28     | 4.760    | 4.500    | 396.0    | 0.001    | 7.0      | 4        |
| STD DEV (GEOM *)     |      |        |          | 20.7     | 0.29     | 0.733    | 0.866    | 33.0     |          | 1.7      |          |
| # SAMP IN STATISTICS |      | 11     |          | 11       | 11       | 4        | 7        | 11       | 10       | 11       | 8        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 9        |          | 20       |

| *INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|---------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                     |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                     |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
|                     |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| SAMPLE              | DATE | SAMPLE   | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| DATE                | HOUR | NUMBER   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD              | LMT  |          |        |        |          |          |          |          |          |      |          |
| 870119              | 1135 | 37906    | 6      | 1.0    | 0.020    | 0.010<   | 0.800    | 0.260    | 0.003<   | 8.32 | 0.001<   |
| 870216              | 1145 | 37925    | 4<     | 1.0    | 0.095    | 0.010<   | 0.700    | 0.370    | 0.003<   | 8.06 | 0.007    |
| 870316              | 1155 | 37944    | 4      | 1.0    | 0.044    | 0.010<   | 0.800    | 0.290    | 0.003<   | 8.28 | 0.005    |
| 870421              | 1100 | 37963    | 32     | 16.0   | 0.010    | 0.040    | 0.600    | 0.340    | 0.003<   | 8.33 | 0.008    |
| 870525              | 1150 | 37982    | 76     | 14.0   | 0.020    | 0.010<   | 0.400    | 0.360    | 0.003<   | 8.37 | 0.003    |
| 870615              | 1250 | 38001    | 6      | 23.0   | 0.040    | 0.010    | 0.400    | 0.380    | 0.003<   | 8.55 | 0.007    |
| 870720              | 1150 | 38020    | 288    | 25.0   | 0.050    | 0.010    | 0.100<   | 0.480    | 0.003<   | 8.45 | 0.012    |
| 870817              | 1125 | 38039    | 600>   | 24.0   | 0.035    | 0.020    | 0.300    | 0.480    | 0.003<   | 8.32 | 0.009    |
| 870921              | 1120 | 38058    | 390    | 16.0   | 0.020    | 0.010    | 0.200    | 0.380    | 0.003<   | 8.42 | 0.006    |
| 871019              | 1254 | 38077    | 92     | 10.0   | 0.010    | 0.010<   | 0.400    | 0.300    | 0.003<   | 8.25 | 0.009    |
| 871116              | 1135 | 38096    | 20AID  | 6.0    | 0.008    | 0.010    | 0.300    | 0.330    | 0.003    | 8.32 | 0.005    |

( C O N T D )

B.O.W./ SITE: NORTH SAUGEEN RIVER  
 SAMPLE POINT: AT ELDERSLIE TOWNSHIP ROAD 25 AND 26  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC013

STATION ID: 08-0123-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 17 44.29 LONG: 081 07 15.46 U T M: 17 0490350.0 4904500.0 4 REGION: 01 DISTANCE: 55.360

| *=INTERIM TEST-NAME: |             | FSMF<br>FECAL<br>STREPCUS | FWSTRC        | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N          | NN03UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PP04UR<br>P04            |
|----------------------|-------------|---------------------------|---------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER          | CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | UNF.REAC<br>MG/L<br>AS P |

|                      |  |     |  |  |      |       |       |       |       |       |       |
|----------------------|--|-----|--|--|------|-------|-------|-------|-------|-------|-------|
| MAXIMUM              |  | 390 |  |  | 25.0 | 0.095 | 0.040 | 0.800 | 0.480 | 0.003 | 0.012 |
| ARITH MEAN           |  | 115 |  |  | 12.5 | 0.032 | 0.017 | 0.490 | 0.361 | 0.003 | 0.007 |
| GEOM MEAN            |  |     |  |  | 7.3  | 0.024 |       |       | 0.355 |       | 8.33  |
| MINIMUM              |  | 4   |  |  | 1.0  | 0.008 | 0.010 | 0.200 | 0.260 | 0.003 | 0.003 |
| STD DEV (GEOM *)     |  |     |  |  | 9.3  | 0.025 |       |       | 0.070 |       | 0.12  |
| # SAMP IN STATISTICS |  | 8   |  |  | 11   | 11    | 6     | 10    | 11    | 1     | 10    |
| % SAMP (EXCLUDED)    |  | 20  |  |  |      |       | 45    | 9     |       | 90    | 9     |

| *=INTERIM TEST-NAME: |             | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT. |
|----------------------|-------------|------------------------------|-----------------------------------|---------------------------|-------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER             | MG/L<br>AS P                      | CNT<br>/100ML             | MG/L                    | MG/L<br>AS ZN            |

|        |      |       |       |    |      |       |       |
|--------|------|-------|-------|----|------|-------|-------|
| 870119 | 1135 | 37906 | 0.014 | 4< | 5.0< | 3.60  | 0.015 |
| 870216 | 1145 | 37925 | 0.031 | 4< | 22.8 | 8.20  | 0.004 |
| 870316 | 1155 | 37944 | 0.016 | 4  | 10.4 | 10.70 | 0.001 |
| 870421 | 1100 | 37963 | 0.019 | 4< | 5.0< | 6.50  | 0.001 |
| 870525 | 1150 | 37982 | 0.028 | 4< | 12.0 | 9.60  | 0.014 |
| 870615 | 1250 | 38001 | 0.019 |    | 8.4  | 6.40  | 0.007 |
| 870720 | 1150 | 38020 | 0.044 | 16 | 19.4 | 21.00 | 0.003 |
| 870817 | 1125 | 38039 | 0.048 | 20 | 19.4 | 15.00 | 0.012 |
| 870921 | 1120 | 38058 | 0.036 | 4< | 13.7 | 11.10 | 0.003 |
| 871019 | 1254 | 38077 | 0.021 | 4< | 5.0< | 3.80  | 0.002 |
| 871116 | 1135 | 38096 | 0.016 | 4< | 5.0< | 3.00  | 0.002 |

|                      |  |       |    |      |       |       |
|----------------------|--|-------|----|------|-------|-------|
| MAXIMUM              |  | 0.048 | 20 | 22.8 | 21.00 | 0.015 |
| ARITH MEAN           |  | 0.027 | 13 | 15.2 | 8.99  | 0.006 |
| GEOM MEAN            |  | 0.024 |    |      | 7.62  | 0.004 |
| MINIMUM              |  | 0.014 | 4  | 8.4  | 3.00  | 0.001 |
| STD DEV (GEOM *)     |  | 0.012 |    |      | 5.42  | 0.005 |
| # SAMP IN STATISTICS |  | 11    | 3  | 7    | 11    | 11    |
| % SAMP (EXCLUDED)    |  |       | 70 | 36   |       |       |

## 1987 WATER QUALITY DATA REGION 1

221

B.O.W./ SITE: OTTER CREEK  
 SAMPLE POINT: AT BRUCE COUNTY ROAD 16 NORTH OF MILDWAY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC108

STATION ID: 08-0123-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 00 55.44 LONG: 081 07 38.11

U T M: 17 0489800.0 4873375.0 4

REGION: 01

DISTANCE: 87.868

| *=INTERIM TEST-NAME: |      | FWSADP   | FGPROJ   | ALK      | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |          |          | ALK      | BOD      | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
| SAMPLE               |      | SAMPLE   | PROJECT  | TOTAL    | 5 DAY    | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |
| DATE                 | HR   | DEPTH    | SUB-PROJ | MG/L     | TOT.DEM. | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
| YYMMDD               | LMT  | NUMBER   | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
| 870119               | 0835 | 37900    | 0101     | 286.0    | 0.64     |          | 10.500   | 605.0    | 0.001<W  | 11.0     | 84       |
| 870216               | 0900 | 37919    | 0101     | 290.0    | 0.38     |          | 11.500   | 620.0    | 0.001<W  | 10.5     | 192      |
| 870316               | 0920 | 37938    | 0101     | 280.0    | 0.22     | 11.500   |          | 575.0    |          | 11.5     |          |
| 870421               | 0820 | 37957    | 0101     | 274.0    | 0.73     |          | 10.000   | 605.0    | 0.002    | 10.0     | 44       |
| 870525               | 0910 | 37976    | 0101     | 274.0    | 1.09     |          | 10.000   | 590.0    | 0.002    | 10.0     | 128      |
| 870615               | 0925 | 37995    | 0101     | 268.0    | 0.62     |          | 11.000   | 560.0    | 0.001    | 9.0      | 16       |
| 870720               | 0840 | 38014    | 0101     | 243.0    | 1.26     |          | 12.500   | 570.0    | 0.002    | 8.0      | 600>     |
| 870817               | 0830 | 38033    | 0101     | 264.0    | 0.87     |          | 13.000   | 550.0    | 0.002    | 6.5      |          |
| 870921               | 0840 | 38052    | 0101     | 257.9    | 0.74     | 12.330   |          | 595.0    | 0.004    | 9.0      | 670      |
| 871019               | 0905 | 38071    | 0101     | 282.5    | 0.68     | 12.030   |          | 625.0    | 0.001    | 9.0      | 30AID    |
| 871116               | 0910 | 38090    | 0101     | 276.8    | 0.28     | 13.000   |          | 570.0    | 0.001    | 11.0     | 60AID    |
| MAXIMUM              |      | 0.30     |          | 290.0    | 1.26     | 13.000   | 13.000   | 625.0    | 0.004    | 11.5     | 670      |
| ARITH MEAN           |      | 0.30     |          | 272.4    | 0.68     | 12.215   | 11.214   | 587.7    | 0.002<A  | 9.6      | 153      |
| GEOM MEAN            |      |          |          | 272.1    | 0.61     | 12.203   | 11.162   | 587.3    | 0.002<A  | 9.5      |          |
| MINIMUM              |      | 0.30     |          | 243.0    | 0.22     | 11.500   | 10.000   | 550.0    | 0.001    | 6.5      | 16       |
| STD DEV (GEOM *)     |      |          |          | 13.6     | 0.32     | 0.626    | 1.185    | 24.6     | 0.001<A  | 1.5      |          |
| # SAMP IN STATISTICS |      | 11       |          | 11       | 11       | 4        | 7        | 11       | 10       | 11       | 8        |
| % SAMP (EXCLUDED)    |      |          |          |          |          |          |          |          |          |          | 11       |
| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC   | FWTEMP   | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PP04UR   |
|                      |      | FECAL    |          |          | NH3-N    |          |          | K'DAHL N |          |          |          |
| SAMPLE               |      | STREPCUS |          | WATER    | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | P04      |
| DATE                 | HR   | MF       | STREAM   | TEMP     | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF.REAC |
| YYMMDD               | LMT  | CNT      | COND.    | DEG.C    | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH       | MG/L     |
|                      |      | /100ML   |          |          | AS N     | AS N     | AS N     | AS N     | AS PB    |          | AS P     |
| 870119               | 0835 | 44       | 6        | 1.0      | 0.020    | 0.010<   | 2.900    | 0.350    | 0.003<   | 8.17     | 0.004    |
| 870216               | 0900 | 36       | 6        | 1.0      | 0.025    | 0.010<   | 2.900    | 0.340    | 0.003<   | 8.07     | 0.008    |
| 870316               | 0920 | 37938    | 6        | 1.0      | 0.040    | 0.010<   | 3.400    | 0.350    |          | 8.17     | 0.010    |
| 870421               | 0820 | 4        | 6        | 14.0     | 0.010    | 0.040    | 2.900    | 0.440    | 0.003<   | 8.07     | 0.004    |
| 870525               | 0910 | 28       | 6        | 11.0     | 0.045    | 0.050    | 2.500    | 0.460    | 0.003<   | 8.19     | 0.006    |
| 870615               | 0925 | 132      | 6        | 21.0     | 0.020    | 0.030    | 2.200    | 0.440    | 0.003<   | 8.19     | 0.006    |
| 870720               | 0840 | 600>     | 6        | 20.0     | 0.040    | 0.030    | 0.500    | 0.800    | 0.003<   | 8.00     | 0.020    |
| 870817               | 0830 | 38033    | 6        | 20.0     | 0.025    | 0.030    | 1.500    | 0.600    | 0.003<   | 8.07     | 0.011    |
| 870921               | 0840 | 38052    | 6        | 13.0     | 0.031    | 0.020    | 1.500    | 0.630    | 0.003<   | 8.12     | 0.016    |
| 871019               | 0905 | 40AID    | 6        | 8.0      | 0.010    | 0.010    | 2.400    | 0.260    | 0.003<   | 7.96     | 0.014    |
| 871116               | 0910 | 10AID    | 6        | 6.0      | 0.007    | 0.020    | 2.600    | 0.230    | 0.003<   | 7.99     | 0.013    |

( C O N T D )

B.O.W./ SITE: OTTER CREEK

STATION ID: 08-0123-010-02

SAMPLE POINT: AT BRUCE COUNTY ROAD 16 NORTH OF MILDWAY

STATION TYPE: RIVER FLOW GAUGE MOE 02FC108

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: SAUGEEN RIVER

1260

LAT: 44 00 55.44

LONG: 081 07 38.11

U T M: 17 0489800.0 4873375.0 4

REGION: 01

DISTANCE: 87.868

| *=-INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|-----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                       |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                       |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
| SAMPLE                |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| DATE                  | HOUR | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| YYMMDD                | LMT  | NUMBER   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| MAXIMUM               |      | 132      |        | 21.0   | 0.045    | 0.050    | 3.400    | 0.800    |          | 8.19 | 0.020    |
| ARITH MEAN            |      | 42       |        | 10.5   | 0.025    | 0.029    | 2.300    | 0.445    |          | 8.09 | 0.010    |
| GEOM MEAN             |      |          |        | 6.5    | 0.021    |          | 2.083    | 0.417    |          | 8.09 | 0.009    |
| MINIMUM               |      | 4        |        | 1.0    | 0.007    | 0.010    | 0.500    | 0.230    |          | 7.96 | 0.004    |
| STD DEV (GEOM *)      |      |          |        | 7.8    | 0.013    |          | 0.834    | 0.171    |          | 0.08 | 0.005    |
| # SAMP IN STATISTICS  |      | 7        |        | 11     | 11       | 8        | 11       | 11       |          | 11   | 11       |
| % SAMP (EXCLUDED)     |      | 22       |        |        |          | 27       |          |          |          |      |          |

| *=-INTERIM TEST-NAME: |      | PPUT     | PSAMF    | RSP     | TURB     | ZNUT     |        |
|-----------------------|------|----------|----------|---------|----------|----------|--------|
|                       |      | PHOSPHOR | PSEUDOMN |         |          |          |        |
|                       |      | UNF.TOT. | AERUG.   | RESIDUE |          | ZINC     |        |
| SAMPLE                |      | MG/L     | MF       | PARTIC. | TURB'ITY | UNF.TOT. |        |
| DATE                  | HOUR | AS P     | CNT      | MG/L    | FTU      | MG/L     |        |
| YYMMDD                | LMT  | NUMBER   | /100ML   |         |          | AS ZN    |        |
| 870119                | 0835 | 37900    | 0.022    | 4<      | 5.0<     | 3.30     | 0.002  |
| 870216                | 0900 | 37919    | 0.019    | 4<      | 3.0      | 3.40     | 0.003  |
| 870316                | 0920 | 37938    | 0.018    |         | 4.2      | 3.00     |        |
| 870421                | 0820 | 37957    | 0.023    | 4<      | 5.0<     | 4.60     | 0.002  |
| 870525                | 0910 | 37976    | 0.025    | 4<      | 5.0<     | 3.40     | 0.001< |
| 870615                | 0925 | 37995    | 0.024    | 4<      | 5.0<     | 2.50     | 0.006  |
| 870720                | 0840 | 38014    | 0.074    | 168C    | 27.1     | 21.00    | 0.005  |
| 870817                | 0830 | 38033    | 0.046    |         | 8.3      | 4.20     | 0.013  |
| 870921                | 0840 | 38052    | 0.066    | 16      | 18.0     | 11.10    | 0.006  |
| 871019                | 0905 | 38071    | 0.018    | 4<      | 5.0<     | 2.00     | 0.003  |
| 871116                | 0910 | 38090    | 0.040    | 4<      | 5.0<     | 1.86     | 0.003  |
| MAXIMUM               |      | 0.074    | 168      | 27.1    | 21.00    | 0.013    |        |
| ARITH MEAN            |      | 0.034    | 92       | 12.1    | 5.49     | 0.005    |        |
| GEOM MEAN             |      | 0.030    |          |         | 4.05     |          |        |
| MINIMUM               |      | 0.018    | 16       | 3.0     | 1.86     | 0.002    |        |
| STD DEV (GEOM *)      |      | 0.020    |          |         | 5.73     |          |        |
| # SAMP IN STATISTICS  |      | 11       | 2        | 5       | 11       | 9        |        |
| % SAMP (EXCLUDED)     |      |          | 77       | 54      |          | 10       |        |

B.O.W./ SITE: SAUGEEEN RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15

U T M: 17 0516050.0 4891650.0 4

REGION: 01

DISTANCE: 131.158

| *=INTERIM            |      | TEST-NAME: | FWSADP | FGPROJ   | ALKT  | ASUT     | BOD5     | CCNAUR   | CDUT     | CLIDUR   | CLIDUR   | COND25   |
|----------------------|------|------------|--------|----------|-------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |            |        |          | ALK   | ARSENIC  | BOD      | CYANIDE  |          | CHLORIDE | CHLORIDE | CONDUCT. |
|                      |      |            |        |          | TOTAL | UNF.TOT. | 5 DAY    | AVAIL    | CADMIUM  | CHLORIDE | CHLORIDE | 25C      |
| SAMPLE               | DATE | DATE       | DEPTH  | PROJECT  | MG/L  | MG/L     | TOT.DEM. | UNF.REAC | UNF.TOT. | MG/L     | MG/L     | UMHO/CM  |
| DATE                 | DATE | DATE       | DEPTH  | SUB-PROJ | AS    | AS       | AS       | AS       | AS       | AS       | AS       | AT 25 C  |
| YYMMDD               | LMT  | NUMBER     | M      | CODE     | CAC03 | AS       | AS       | HCN      | CD       | CL       | CL-      |          |
| 870120               | 0835 | 37914      | 0.30   | 0101     | 260.0 | 0.001<   | 0.66     | 0.001<W  | 0.0003<  |          | 6.000    | 480.0    |
| 870217               | 0835 | 37933      | 0.30   | 0101     | 259.0 | 0.001<   | 0.16     | 0.001<W  | 0.0030<  |          | 7.000    | 515.0    |
| 870317               | 0850 | 37952      | 0.30   | 0101     | 227.0 | 0.001<   | 0.56     | 0.001<W  | 0.0003<  |          | 7.000    | 443.0    |
| 870422               | 0810 | 37971      | 0.30   | 0101     | 217.0 | 0.001<   | 1.07     | 0.001<W  | 0.0003<  |          | 6.500    | 445.0    |
| 870526               | 0830 | 37990      | 0.30   | 0101     | 220.0 | 0.001<   | 0.62     | 0.001<W  | 0.0003<  |          | 6.000    | 442.0    |
| 870616               | 0740 | 38009      | 0.30   | 0101     | 216.0 | 0.001<   | 0.81     | 0.001<W  | 0.0003<  |          | 6.000    | 413.0    |
| 870721               | 0745 | 38028      | 0.30   | 0101     | 204.0 | 0.001<   | 0.60     | 0.001<W  | 0.0007   |          | 7.500    | 428.0    |
| 870818               | 0755 | 38047      | 0.30   | 0101     | 218.0 | 0.001<   | 0.43     | 0.001<W  | 0.0003<  |          | 6.500    | 425.0    |
| 870922               | 0800 | 38066      | 0.30   | 0101     | 217.6 | 0.001<   | 0.41     | 0.001<W  | 0.0003<  | 8.210    |          | 433.0    |
| 871020               | 0845 | 38085      | 0.30   | 0101     | 234.0 | 0.001<   | 0.54     | 0.001<W  | 0.0003<  | 7.520    |          | 460.0    |
| 871117               | 0845 | 38104      | 0.30   | 0101     | 205.5 | 0.001<   | 0.08     | 0.001<W  | 0.0003<  | 6.640    |          | 418.0    |
| MAXIMUM              |      |            | 0.30   |          | 260.0 |          | 1.07     | 0.001    | 0.0007   | 8.210    | 7.500    | 515.0    |
| ARITH MEAN           |      |            | 0.30   |          | 225.3 |          | 0.54     | 0.001<A  | 0.0007   | 7.457    | 6.562    | 445.6    |
| GEOM MEAN            |      |            |        |          | 224.6 |          | 0.45     | 0.001<A  |          | 7.429    | 6.542    | 444.8    |
| MINIMUM              |      |            | 0.30   |          | 204.0 |          | 0.08     | 0.001    | 0.0007   | 6.640    | 6.000    | 413.0    |
| STD DEV (GEOM *)     |      |            |        |          | 18.9  |          | 0.28     | 0.000<A  |          | 0.787    | 0.563    | 29.9     |
| # SAMP IN STATISTICS |      |            | 11     |          | 11    |          | 11       | 11       | 1        | 3        | 8        | 11       |
| % SAMP (EXCLUDED)    |      |            |        |          |       |          |          |          | 90       |          |          |          |

| *=INTERIM |      | TEST-NAME: | CRUT     | CUUT    | DO       | FCMF     | FEUT     | FSMF     | FWSTRC | FWTEMP | NIUT     | NNHTUR   |
|-----------|------|------------|----------|---------|----------|----------|----------|----------|--------|--------|----------|----------|
|           |      |            |          |         |          | FECAL    | IRON     | FECAL    |        |        | NICKEL   | NH3-N    |
|           |      |            | CHROMIUM | COPPER  | DISOLVED | COLIFORM | UNF.TOT. | STREPCUS |        | WATER  | UNF.TOT. | UNF.REAC |
| SAMPLE    | DATE | DATE       | MG/L     | MG/L    | OXYGEN   | MF       | MG/L     | MF       | STREAM | TEMP   | MG/L     | MG/L     |
| DATE      | DATE | DATE       | AS CR    | AS CU   | AS O     | CNT      | AS FE    | CNT      | COND.  | DEG.C  | AS NI    | AS N     |
| YYMMDD    | LMT  | NUMBER     |          |         |          | /100ML   |          | /100ML   |        |        |          |          |
| 870120    | 0835 | 37914      | 0.001<   | 0.001   | 13.0     | 4<       | 0.049    | 4<       | 6      | 1.0    | 0.002<   | 0.005    |
| 870217    | 0835 | 37933      | 0.005<   | 0.003<  | 13.0     | 4<       | 0.056    | 4<       | 6      | 1.0    | 0.015<   | 0.010    |
| 870317    | 0850 | 37952      | 0.001<   | 0.001   | 12.5     | 10<      | 0.051    | 4        | 6      | 1.0    | 0.002<   | 0.010    |
| 870422    | 0810 | 37971      | 0.001<   | 0.001<W | 10.0     | 8        | 0.081    | 4        | 6      | 11.0   | 0.002<   | 0.035    |
| 870526    | 0830 | 37990      | 0.001<   | 0.001<W | 9.5      | 20       | 0.068    | 12       | 6      | 12.0   | 0.002<   | 0.015    |
| 870616    | 0740 | 38009      | 0.001    | 0.001<W |          |          | 0.220    |          |        |        | 0.002<   | 0.030    |
| 870721    | 0745 | 38028      | 0.001<   | 0.001   | 8.0      | 4<       | 0.270    | 4        | 6      | 23.0   | 0.002<   | 0.035    |
| 870818    | 0755 | 38047      | 0.003    | 0.001<  | 7.0      | 48       | 0.087    | 172      | 6      | 20.0   | 0.001<   | 0.030    |
| 870922    | 0800 | 38066      | 0.003    | 0.001<  | 8.5      | 116      | 0.088    | 196      | 6      | 14.0   | 0.001    | 0.010    |
| 871020    | 0845 | 38085      | 0.003    | 0.001<  | 9.5      |          | 0.056    |          | 6      | 7.0    | 0.001<   | 0.020    |
| 871117    | 0845 | 38104      | 0.002    | 0.001<  | 11.0     | 20       | 0.040    | 20       | 6      | 7.0    | 0.001<   | 0.005<   |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15

U T M: 17 0516050.0 4891650.0 4

REGION: 01

DISTANCE: 131.158

| *INTERIM TEST-NAME:      |             | CRUT                 | CUUT                                  | DO                                  | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC                          | FWTEMP<br>WATER<br>TEMP<br>DEG.C     | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI        | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |
|--------------------------|-------------|----------------------|---------------------------------------|-------------------------------------|--|---|--|---------------------------------|--------------------------------------|--|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | CHROMIUM<br>UNF.TOT.<br>MG/L<br>AS CR | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | DISOLVED<br>OXYGEN<br>MG/L<br>AS O               |   |  | STREAM<br>COND.                 |                                      |  |  |
|                          |             | MAXIMUM              | 0.003                                 | 0.001                               | 13.0   | 116                                       | 0.270  |                                 | 23.0                                 | 0.001  | 0.035  |
|                          |             | ARITH MEAN           | 0.002                                 | 0.001<A                             | 10.2   | 42  | 0.097  |                                 | 9.7                                  | 0.001  | 0.020  |
|                          |             | GEOM MEAN            |                                       |                                     | 10.0   |   | 0.079  |                                 | 5.8                                  |  |  |
|                          |             | MINIMUM              | 0.001                                 | 0.001                               | 7.0  | 8   | 0.040  |                                 | 1.0                                  | 0.001  | 0.005  |
|                          |             | STD DEV (GEOM *)     |                                       |                                     | 2.1  |   | 0.076  |                                 | 7.8                                  |  |  |
|                          |             | # SAMP IN STATISTICS | 5                                     | 6                                   | 10   | 5   | 11   |                                 | 10                                   | 1  | 10   |
|                          |             | % SAMP (EXCLUDED)    | 54                                    | 45                                  |  | 44  |  |                                 |                                      | 90   | 9  |
| *INTERIM TEST-NAME:      |             | NNO2UR               | NNO3UR                                | NNTKUR<br>K'DAHL N<br>TOTAL         | PBUT   | PH  | PHNOL  | PP04UR                          | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | P1PCBT<br>PCB<br>TOTAL<br>NG/L                       |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | N02-N<br>UNF.REAC<br>MG/L<br>AS N     | N03-N<br>UNF.REAC<br>MG/L<br>AS N   | UNF.REAC<br>MG/L<br>AS N                         | LEAD<br>UNF.TOT.<br>MG/L<br>AS PB         | PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL            | P04<br>UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P |  |  |
| 870120                   | 0835        | 37914                | 0.010<                                | 0.600                               | 0.260  | 0.003<                                    | 8.24   | 1.000<                          | 0.001<                               | 0.007  | 4< 20<W  |
| 870217                   | 0835        | 37933                | 0.010<                                | 0.500                               | 0.250  | 0.030<                                    | 8.00   | 0.001<                          | 0.003                                | 4< 20<W  |  |
| 870317                   | 0850        | 37952                | 0.010<                                | 0.500                               | 0.360  | 0.003<                                    | 8.25   | 1.000<                          | 0.002                                | 0.009  | 4< 20<W  |
| 870422                   | 0810        | 37971                | 0.010<                                | 0.200                               | 0.380  | 0.003<                                    | 8.22   | 1.000<                          | 0.001<                               | 0.013  | 4< NO DATA/IS  |
| 870526                   | 0830        | 37990                | 0.010<                                | 0.200                               | 0.440  | 0.003<                                    | 8.28   | 1.000<                          | 0.001<                               | 0.009  | 4< 20<W  |
| 870616                   | 0740        | 38009                | 0.010<                                | 0.400                               | 0.550  | 0.003<                                    | 8.20   | 1.000<                          | 0.001                                | 0.009  | 4< 20<W  |
| 870721                   | 0745        | 38028                | 0.010                                 | 0.100<                              | 0.560  | 0.003<                                    | 8.21   | 0.002                           | 0.019                                | 4< 20<W  |  |
| 870818                   | 0755        | 38047                | 0.010                                 | 0.300                               | 0.460  | 0.003<                                    | 8.20   | 1.000<                          | 0.007                                | 0.018  | 4 20<W   |
| 870922                   | 0800        | 38066                | 0.010                                 | 0.500                               | 0.330  | 0.003<                                    | 8.20   | 1.000<                          | 0.001<                               | 0.006  | 4 20<W   |
| 871020                   | 0845        | 38085                | 0.010<                                | 0.900                               | 0.310  | 0.003<                                    | 8.14   | 0.006                           | 0.006                                | 0.006  | 20<W   |
| 871117                   | 0845        | 38104                | 0.010<                                | 0.100                               | 0.430  | 0.003<                                    | 8.22   | 1.000<                          | 0.004                                | 0.018  | 4< 20<W  |
|                          |             | MAXIMUM              | 0.010                                 | 0.900                               | 0.560  |   | 8.28   | 0.007                           | 0.019                                | 4  | 20   |
|                          |             | ARITH MEAN           | 0.010                                 | 0.420                               | 0.394  |   | 8.20   | 0.004                           | 0.011                                | 4  | 20<A   |
|                          |             | GEOM MEAN            |                                       |                                     | 0.381  |   | 8.20   |                                 | 0.009                                |  | 20<A   |
|                          |             | MINIMUM              | 0.010                                 | 0.100                               | 0.250  |   | 8.00   | 0.001                           | 0.003                                | 4  | 20   |
|                          |             | STD DEV (GEOM *)     |                                       |                                     | 0.105  |   | 0.07   |                                 | 0.006                                |  | 0<A  |
|                          |             | # SAMP IN STATISTICS | 3                                     | 10                                  | 11   |   | 11   | 6                               | 11                                   | 2  | 10   |
|                          |             | % SAMP (EXCLUDED)    | 72                                    | 9                                   |  |   |  | 45                              |                                      | 77   |  |

( C O N T D )



B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15

U T M: 17 0516050.0 4891650.0 4

REGION: 01

DISTANCE: 131.158

| *=INTERIM TEST-NAME: |      | RSP     | TURB     | X3245    | ZNUT       |        |
|----------------------|------|---------|----------|----------|------------|--------|
|                      |      |         |          | 2,4,5    | ZINC       |        |
| SAMPLE               |      | RESIDUE |          | TRCHLORO | UNF.TOT.   |        |
| DATE                 | HOUR | SAMPLE  | TURB'ITY | PHENOL   | MG/L       |        |
| YYMMDD               | LMT  | NUMBER  | FTU      | NG/L     | AS ZN      |        |
| 870120               | 0835 | 37914   | 5.0<     | 0.86     | 100<W      | 0.002  |
| 870217               | 0835 | 37933   | 0.4      | 2.40     | NO DATA IS | 0.007  |
| 870317               | 0850 | 37952   | 0.9      | 1.73     | 100<W      | 0.006  |
| 870422               | 0810 | 37971   | 5.0<     | 2.60     | 100<W      | 0.002  |
| 870526               | 0830 | 37990   | 5.0<     | 2.00     | 100<W      | 0.002  |
| 870616               | 0740 | 38009   | 5.0<     | 2.30     | NO DATA LA | 0.002  |
| 870721               | 0745 | 38028   | 4.7      | 3.90     | 100<W      | 0.005  |
| 870818               | 0755 | 38047   | 5.0<     | 2.30     | 100<W      | 0.002< |
| 870922               | 0800 | 38066   | 5.0<     | 2.20     | 100<W      | 0.002< |
| 871020               | 0845 | 38085   | 5.0<     | 2.00     | 100<W      | 0.002< |
| 871117               | 0845 | 38104   | 5.0<     | 2.00     | 100<W      | 0.002  |
| MAXIMUM              |      | 4.7     | 3.90     | 100      | 0.007      |        |
| ARITH MEAN           |      | 2.0     | 2.21     | 100<A    | 0.003      |        |
| GEOM MEAN            |      |         | 2.09     | 100<A    |            |        |
| MINIMUM              |      | 0.4     | 0.86     | 100      | 0.002      |        |
| STD DEV (GEOM *)     |      |         | 0.72     | 0<A      |            |        |
| # SAMP IN STATISTICS |      | 3       | 11       | 9        | 8          |        |
| % SAMP (EXCLUDED)    |      | 72      |          |          | 27         |        |

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGUYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

| *INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | CDUT     | COND25     | CUUT     | FWFLOW     | HGUT     | NNOTFR     | NNO2FR   |          |
|---------------------|------|--------|----------|----------|----------|------------|----------|------------|----------|------------|----------|----------|
|                     |      |        |          | ALK      | CADMIUM  | CONDUCT.   | COPPER   | STREAM     | MERCURY  | NO2+NO3N   | NO2-N    |          |
| SAMPLE              |      | SAMPLE | PROJECT  | TOTAL    | UNF.TOT. | 25C        | UNF.TOT. | FLOW       | UNF.TOT. | FIL.REAC   | FIL.REAC |          |
| DATE                | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM    | MG/L     | M3         | UG/L     | MG/L       | MG/L     |          |
| YYMMDD              | LMT  | M      | CODE     | AS CAC03 | AS CD    | AT 25 C    | AS CU    | /S         | AS HG    | AS N       | AS N     |          |
| 870101              |      | 42440  | 0.30     | 0103     | 201.4    | 0.0005     | 465.0    | 0.004      | 53.200   | 0.01<      | 2.180    | 0.0130   |
| 870105              | 0800 | 42400  | 0.30     | 0103     | 272.4    | 0.0002<    | 590.0    | 0.001      | 37.700   | 0.01<      | 1.440    | 0.0010<W |
| 870119              | 0830 | 42401  | 0.30     | 0103     | 266.5    | 0.0003<    | 601.0    | 0.001      | 37.500   | 0.01<      | 1.700    | 0.0230   |
| 870202              | 1600 | 42402  | 0.30     | 0103     | 266.4    | 0.0002<    | 622.0    | 0.001<     | 31.000   | 0.01<      | 2.080    | 0.0715   |
| 870305              | 0800 | 42403  | 0.30     | 0103     | 222.5    | 0.0003<    | 523.0    | 0.001<W    | 50.000   | 0.01<      | 1.850    | 0.0265   |
| 870310              | 0800 | 42404  | 0.30     | 0103     | 177.1    | 0.0003<    | 400.0    | 0.001      | 118.000  | 0.01<      | 2.290    | 0.0370   |
| 870311              | 1330 | 42405  | 0.30     | 0103     | 204.5    | 0.0003<    | 455.0    | 0.001      | 125.000  | 0.01       | 2.250    | 0.0265   |
| 870312              | 1430 | 42406  | 0.30     | 0103     | 219.3    | NO DATA RE | 485.0    | NO DATA RE | 115.000  | 0.01<      | 2.090    | 0.0230   |
| 870313              | 0800 | 42407  | 0.30     | 0103     | 224.9    | 0.0003<    | 491.0    | 0.001<W    | 98.000   | 0.01<      | 2.040    | 0.0205   |
| 870318              | 0800 | 42408  | 0.30     | 0103     | 236.8    | 0.0003<    | 524.0    | 0.001      | 62.400   | 0.01<      | 1.670    | 0.0110   |
| 870323              | 0800 | 42409  | 0.30     | 0103     | 189.8    | 0.0003<    | 428.0    | 0.002      | 169.000  | 0.01       | 2.080    | 0.0795   |
| 870325              | 1800 | 42410  | 0.30     | 0103     | 176.4    | 0.0003<    | 388.0    | 0.002      | 222.000  | 0.01       | 1.790    | 0.0740   |
| 870326              | 0800 | 42411  | 0.30     | 0103     | 166.5    | 0.0003<    | 369.0    | 0.004      | 264.000  | 0.01       | 1.910    | 0.1000   |
| 870330              | 0800 | 42412  | 0.30     | 0103     | 185.1    | 0.0003<    | 418.0    | 0.002      | 187.000  | 0.01<      | 1.610    | 0.0800   |
| 870331              | 0800 | 42413  | 0.30     | 0103     | 187.1    | 0.0003<    | 421.0    | 0.002      | 203.000  | 0.01<      | 1.990    | 0.1210   |
| 870401              | 0800 | 42414  | 0.30     | 0103     | 189.9    | 0.0003<    | 416.0    | 0.001      | 177.000  | 0.01<      | 1.570    | 0.0485   |
| 870402              | 0800 | 42415  | 0.30     | 0103     | 194.8    | 0.0003<    | 426.0    | 0.001      | 152.000  | 0.01<      | 1.540    | 0.0685   |
| 870403              | 0800 | 42416  | 0.30     | 0103     | 201.1    | 0.0003<    | 444.0    | 0.001      | 142.000  | NO DATA SS | 1.730    | 0.0860   |
| 870406              | 0800 | 42417  | 0.30     | 0103     | 214.8    | 0.0003<    | 478.0    | 0.002      | 157.000  | 0.01<      | 2.020    | 0.0965   |
| 870407              | 0800 | 42418  | 0.30     | 0103     | 202.0    | 0.0003<    | 440.0    | 0.002      | 198.000  | 0.01<      | 1.930    | 0.0715   |
| 870410              | 0800 | 42420  | 0.30     | 0103     | 205.0    | NO DATA BT | 438.0    | NO DATA BT | 108.000  | 0.01<      | 1.460    | 0.0560   |
| 870511              | 1000 | 42421  | 0.30     | 0103     | 235.4    | NO DATA BT | 570.0    | NO DATA BT | 26.300   | 0.01<      | 1.120    | 0.0210   |
| 870603              | 1030 | 42422  | 0.30     | 0103     | 223.0    | NO DATA BT | 576.0    | NO DATA BT | 26.300   | 0.01       | 0.865    | 0.0575   |
| 870615              | 1400 | 42423  | 0.30     | 0103     | 216.3    | 0.0003<    | 563.0    | 0.001      | 19.200   | 0.01<      | 0.985    | 0.0730   |
| 870709              | 0920 | 42424  | 0.30     | 0103     | 211.8    | 0.0002<    | 575.0    | 0.003      | 22.700   | 0.01<      | 0.695    | 0.0150   |
| 870723              | 1320 | 42425  | 0.30     | 0103     | 203.2    | NO DATA BT | 510.0    | NO DATA BT | 25.400   | 0.01       | 0.550    | 0.0105   |
| 870805              | 1410 | 42426  | 0.30     | 0103     | 201.4    | 0.0002<    | 581.0    | 0.004      | 15.600   | 0.01       | 0.570    | 0.0220   |
| 870818              | 1040 | 42427  | 0.30     | 0103     | 196.2    | 0.0002<    | 500.0    | 0.004      | 22.300   | 0.01<      | 0.655    | 0.0180   |
| 870902              | 0900 | 42428  | 0.30     | 0103     | 194.3    | 0.0002<    | 612.0    | 0.003      | 13.400   | 0.01<      | 0.500    | 0.0075   |
| 870916              | 1245 | 42429  | 0.30     | 0103     | 197.8    | 0.0003     | 605.0    |            | 11.100   | 0.01<      |          |          |
| 871001              | 0915 | 42430  | 0.30     | 0103     | 214.7    | 0.0002<    | 589.0    | 0.004      | 25.200   | 0.01       | 1.110    | 0.0140   |
| 871014              | 1600 | 42431  | 0.30     | 0103     |          | NO DATA BT |          | NO DATA BT | 18.000   | NO DATA SS |          |          |
| 871026              | 1000 | 42432  | 0.30     | 0103     | 221.3    | 0.0002     | 559.0    | 0.004      | 56.000   | 0.01<      | 1.720    | 0.0010<W |
| 871109              | 0800 | 42433  | 0.30     | 0103     | 187.4    | 0.0003     | 439.0    | 0.007      | 160.000  | 0.01       | 1.320    | 0.0245   |
| 871110              | 0900 | 42434  | 0.30     | 0103     | 208.0    | 0.0002<    | 491.0    | 0.004      | 126.000  | 0.01<      | 1.820    | 0.0190   |
| 871111              | 0800 | 42435  | 0.30     | 0103     | 214.7    | 0.0002<    | 498.0    | 0.004      | 91.700   | 0.01<      | 1.760    | 0.0120   |
| 871113              | 0600 | 42436  | 0.30     | 0103     | 217.6    | NO DATA BT | 520.0    | NO DATA BT | 59.900   | 0.01<      | 1.850    | 0.0250   |
| 871130              | 0800 | 42438  | 0.30     | 0103     | 188.1    | 0.0002<    | 442.0    | 0.005      | 175.000  | 0.01       | 1.810    | 0.0250   |
| 871201              | 0800 | 42439  | 0.30     | 0103     | 204.1    | 0.0002<    | 470.0    | 0.005      | 160.000  | 0.01       | 2.100    | 0.0170   |
| 871204              | 0800 | 42441  | 0.30     | 0103     | 206.8    | NO DATA IS | 477.0    | NO DATA IS | 86.600   | 0.01<      | 1.930    | 0.0090   |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

227

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGUYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

| *=INTERIM | TEST-NAME: | FWSADP               | FGPROJ   | ALKT     | CDUT     | COND25   | CUUT     | FWFLOW  | HGUT     | NNOTFR   | NNO2FR   |
|-----------|------------|----------------------|----------|----------|----------|----------|----------|---------|----------|----------|----------|
| SAMPLE    |            | SAMPLE               | PROJECT  | ALK      | CADMIUM  | CONDUCT. | COPPER   | STREAM  | MERCURY  | N02+N03N | N02-N    |
| DATE      | HR         | DEPTH                | SUB-PROJ | TOTAL    | UNF.TOT. | 25C      | UNF.TOT. | FLOW    | UNF.TOT. | FIL.REAC | FIL.REAC |
| YYMMDD    | LMT        | M                    | CODE     | MG/L     | MG/L     | UMHO/CM  | MG/L     | M3      | UG/L     | MG/L     | MG/L     |
|           |            |                      |          | AS CAC03 | AS CD    | AT 25 C  | AS CU    | /S      | AS HG    | AS N     | AS N     |
|           |            | MAXIMUM              |          | 272.4    | 0.0005   | 622.0    | 0.007    | 264.000 | 0.01     | 2.290    | 0.1210   |
|           |            | ARITH MEAN           |          | 208.9    | 0.0003   | 497.4    | 0.003<A  | 95.302  | 0.01     | 1.594    | 0.0396<A |
|           |            | GEOM MEAN            |          | 207.7    |          | 492.5    |          | 67.400  |          | 1.481    | 0.0260<A |
|           |            | MINIMUM              |          | 166.5    | 0.0002   | 369.0    | 0.001    | 11.100  | 0.01     | 0.500    | 0.0010   |
|           |            | STD DEV (GEOM *)     |          | 23.4     |          | 70.7     |          | 69.942  |          | 0.519    | 0.0321<A |
|           |            | # SAMP IN STATISTICS | 41       | 39       | 4        | 39       | 30       | 41      | 11       | 38       | 38       |
|           |            | % SAMP (EXCLUDED)    |          |          | 87       |          | 3        |         | 71       |          |          |

| *=INTERIM | TEST-NAME: | PBUT       | PH   | POALA    | POMET   | PP04FR   | PPUT     | P1ALDR | P1BHCG | P1CHLA   | P1DIEL   |
|-----------|------------|------------|------|----------|---------|----------|----------|--------|--------|----------|----------|
| SAMPLE    |            | LEAD       |      |          |         | P04      | PHOSPHOR |        |        |          |          |
| DATE      | HR         | UNF.TOT.   |      | ALACHLOR | METALA- | FIL.REAC | UNF.TOT. | ALDRIN | BHC    | CHLRDANE | DIELDRLN |
| YYMMDD    | LMT        | MG/L       | PH   | NG/L     | CHLOR   | MG/L     | MG/L     | NG/L   | GAMMA  | ALPHA    | NG/L     |
|           |            | AS PB      |      |          | NG/L    | AS P     | AS P     |        | NG/L   |          |          |
| 870101    |            | 0.014      | 8.26 |          |         | 0.0145   | 0.065    |        |        |          |          |
| 870105    | 0800       | 0.003<     | 8.31 | 100<W    | 100<W   | 0.0005<W | 0.009<T  | 40<W   | 40<W   | 10<W     | 1<W      |
| 870119    | 0830       | 0.009      | 8.33 | 100<W    | 100<W   | 0.0025   | 0.006<T  | 40<W   | 40<W   | 10<W     | 1<W      |
| 870202    | 1600       | 0.052      | 8.29 | 100<W    | 100<W   | 0.0035   | 0.014    |        |        |          |          |
| 870305    | 0800       | 0.003      | 8.22 | 100<W    | 100<W   | 0.0210   | 0.045    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870310    | 0800       | 0.003      | 8.36 |          |         | 0.0390   | 0.071    |        |        |          |          |
| 870311    | 1330       | 0.003      | 8.38 |          |         | 0.0235   | 0.056    |        |        |          |          |
| 870312    | 1430       | NO DATA RE | 8.41 |          |         | 0.0130   | 0.029    |        |        |          |          |
| 870313    | 0800       | 0.003<     | 8.47 |          |         | 0.0085   | 0.030    |        |        |          |          |
| 870318    | 0800       | 0.003<     | 8.48 | 100<W    | 100<W   | 0.0065   | 0.031    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870323    | 0800       | 0.120      | 8.25 |          |         | 0.0225   | 0.087    |        |        |          |          |
| 870325    | 1800       | 0.065      | 8.27 |          |         | 0.0210   | 0.127    |        |        |          |          |
| 870326    | 0800       | 0.070      | 8.20 |          |         | 0.0230   | 0.038    |        |        |          |          |
| 870330    | 0800       | 0.077      | 8.36 |          |         | 0.0115   | 0.058    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870331    | 0800       | 0.039      | 8.36 |          |         | 0.0235   | 0.076    |        |        |          |          |
| 870401    | 0800       | 0.007      | 8.42 |          |         | 0.0070   | 0.051    |        |        |          |          |
| 870402    | 0800       | 0.083      | 8.42 |          |         | 0.0050   | 0.031    |        |        |          |          |
| 870403    | 0800       | 0.004      | 8.31 |          |         | 0.0065   | 0.027    |        |        |          |          |
| 870406    | 0800       | 0.098      | 8.38 |          |         | 0.0080   | 0.040    |        |        |          |          |
| 870407    | 0800       | 0.200      | 8.36 | 100<W    | 100<W   | 0.0095   | 0.070    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870410    | 0800       | NO DATA BT | 8.41 |          |         | 0.0050   | 0.033    |        |        |          |          |
| 870511    | 1000       | NO DATA BT | 8.37 | 100<W    | 100<W   | 0.0005<T | 0.016    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870603    | 1030       | NO DATA BT | 8.32 | 100<W    | 100<W   | 0.0025   | 0.021    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870615    | 1400       | 0.048      | 8.40 | 100<W    | 100<W   | 0.0015<T | 0.015    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870709    | 0920       | 0.066      | 8.29 | 100<W    | 100<W   | 0.0005<T | 0.033    | 40<W   | 40<W   | 10<W     | 1<W      |
| 870723    | 1320       | NO DATA BT | 8.42 |          |         | 0.0010<T | 0.024    |        |        |          |          |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGUYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

| *=INTERIM TEST-NAME: |      | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH         | POALA<br>ALACHLOR<br>NG/L | POMET<br>METALA-<br>CHLOR<br>NG/L | PP04FR<br>P04<br>FIL.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | P1ALDR<br>ALDRIN<br>NG/L | P1BHCG<br>BHC<br>GAMMA<br>NG/L | P1CHLA<br>CHLRDANE<br>ALPHA<br>NG/L | P1DIEL<br>DIELDRIN<br>NG/L |     |
|----------------------|------|---|------------|---------------------------|-----------------------------------|---|--|--------------------------|--------------------------------|-------------------------------------|----------------------------|-----|
| 870805               | 1410 | 42426                                     | 0.060      | 8.37                      | 100<W                             | 100<W                                     | 0.0065                                       | 0.014                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 870818               | 1040 | 42427                                     | 0.130      | 8.33                      | 100<W                             | 100<W                                     | 0.0020<T                                     | 0.023                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 870902               | 0900 | 42428                                     | 0.080      | 8.35                      | 100<W                             | 100<W                                     | 0.0005<W                                     | 0.032                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 870916               | 1245 | 42429                                     | 0.120      | 8.35                      | 100<W                             | 100<W                                     |  | 0.031                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871001               | 0915 | 42430                                     | 0.065      | 8.26                      | 100<W                             | 100<W                                     | 0.0055                                       | 0.035                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871014               | 1600 | 42431                                     | NO DATA BT |                           | 100<W                             | 100<W                                     |  |                          | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871026               | 1000 | 42432                                     | 0.027      | 8.44                      | 100<W                             | 100<W                                     | 0.0290                                       | 0.080                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871109               | 0800 | 42433                                     | 0.130      | 8.19                      | 100<W                             | 100<W                                     | 0.0535                                       | 0.180                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871110               | 0900 | 42434                                     | 0.014      | 8.23                      | 100<W                             | 100<W                                     | 0.0315                                       | 0.108                    |                                |                                     |                            |     |
| 871111               | 0800 | 42435                                     | 0.008      | 8.30                      | 100<W                             | 100<W                                     | 0.0160                                       | 0.058                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871113               | 0600 | 42436                                     | NO DATA BT | 8.24                      |                                   |   | 0.0090                                       | 0.050                    |                                |                                     |                            |     |
| 871130               | 0800 | 42438                                     | 0.081      | 8.25                      | 100<W                             | 100<W                                     | 0.0465                                       | 0.117                    | 40<W                           | 40<W                                | 10<W                       | 1<W |
| 871201               | 0800 | 42439                                     | 0.068      | 8.33                      |                                   |   | 0.0265                                       | 0.095                    |                                |                                     |                            |     |
| 871204               | 0800 | 42441                                     | NO DATA IS | 8.35                      |                                   |   | 0.0095                                       | 0.028                    |                                |                                     |                            |     |
| MAXIMUM              |      | 0.200                                     | 8.48       | 100                       | 100                               | 0.0535                                    | 0.180  | 40                       | 40                             | 10                                  | 1                          |     |
| ARITH MEAN           |      | 0.060                                     | 8.33       | 100<A                     | 100<A                             | 0.0136<A                                  | 0.050<A                                      | 40<A                     | 40<A                           | 10<A                                | 1<A                        |     |
| GEOM MEAN            |      |   | 8.33       | 100<A                     | 100<A                             | 0.0073<A                                  | 0.039<A                                      | 40<A                     | 40<A                           | 10<A                                | 1<A                        |     |
| MINIMUM              |      | 0.003                                     | 8.19       | 100                       | 100                               | 0.0005                                    | 0.006  | 40                       | 40                             | 10                                  | 1                          |     |
| STD DEV (GEOM *)     |      |   | 0.07       | 0<A                       | 0<A                               | 0.0133<A                                  | 0.037<A                                      | 0<A                      | 0<A                            | 0<A                                 | 0<A                        |     |
| # SAMP IN STATISTICS |      | 29  | 39         | 21                        | 21                                | 38  | 39   | 20                       | 20                             | 20                                  | 20                         |     |
| % SAMP (EXCLUDED)    |      | 9   |            |                           |                                   |   |  |                          |                                |                                     |                            |     |

| *=INTERIM TEST-NAME: |      | P1DMDT<br>DMDT<br>MTHXYLLR<br>NG/L | P1ENDR<br>ENDRIN<br>NG/L | P1ENDT<br>ENDOSULP<br>TOTAL<br>NG/L | P1HEPE<br>HEPTA<br>CHLOR<br>EPOXIDE<br>NG/L | P1HEPT<br>HEPACHOR<br>NG/L | P1MIRX<br>MIREX<br>NG/L | P1OPDT<br>OP-DDT<br>NG/L | P1PCBT<br>PCB<br>TOTAL<br>NG/L | P1PPDE<br>PP-DDE<br>NG/L | P1PPDT<br>PP-DDT<br>NG/L |     |
|----------------------|------|------------------------------------|--------------------------|-------------------------------------|---|----------------------------|-------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|-----|
| 870105               | 0800 | 42400                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870119               | 0830 | 42401                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870305               | 0800 | 42403                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870318               | 0800 | 42408                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870330               | 0800 | 42412                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870407               | 0800 | 42418                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870511               | 1000 | 42421                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870603               | 1030 | 42422                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870615               | 1400 | 42423                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870709               | 0920 | 42424                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870805               | 1410 | 42426                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |
| 870818               | 1040 | 42427                              | 40<W                     | 20<W                                | 5<W   | 2<W                        | 40<W                    | 40<W                     | 2<W                            | 6<W                      | 1<W                      | 2<W |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

| *=INTERIM TEST-NAME: |           | P1DMDT        | P1ENDR             | P1ENDT      | P1HEPE              | P1HEPT                   | P1MIRX        | P1OPDT     | P1PCBT      | P1PPDE         | P1PPDT      |             |
|----------------------|-----------|---------------|--------------------|-------------|---------------------|--------------------------|---------------|------------|-------------|----------------|-------------|-------------|
| SAMPLE DATE          | YMMDD LMT | SAMPLE NUMBER | DMDT MTHXYLLR NG/L | ENDRIN NG/L | ENDOSULP TOTAL NG/L | HEPTA CHLOR EPOXIDE NG/L | HEPACHOR NG/L | MIREX NG/L | OP-DDT NG/L | PCB TOTAL NG/L | PP-DDE NG/L | PP-DDT NG/L |
| 870818               | 1040      | 42427         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 870902               | 0900      | 42428         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 870916               | 1245      | 42429         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871001               | 0915      | 42430         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871014               | 1600      | 42431         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871026               | 1000      | 42432         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871109               | 0800      | 42433         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871111               | 0800      | 42435         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| 871130               | 0800      | 42438         | 40<W               | 20<W        | 5<W                 | 2<W                      | 40<W          | 40<W       | 2<W         | 6<W            | 1<W         | 2<W         |
| MAXIMUM              |           |               | 40                 | 20          | 5                   | 2                        | 40            | 40         | 2           | 6              | 1           | 2           |
| ARITH MEAN           |           |               | 40<A               | 20<A        | 5<A                 | 2<A                      | 40<A          | 40<A       | 2<A         | 6<A            | 1<A         | 2<A         |
| GEOM MEAN            |           |               | 40<A               | 20<A        | 5<A                 | 2<A                      | 40<A          | 40<A       | 2<A         | 6<A            | 1<A         | 2<A         |
| MINIMUM              |           |               | 40                 | 20          | 5                   | 2                        | 40            | 40         | 2           | 6              | 1           | 2           |
| STD DEV (GEOM *)     |           |               | 0<A                | 0<A         | 0<A                 | 0<A                      | 0<A           | 0<A        | 0<A         | 0<A            | 0<A         | 0<A         |
| # SAMP IN STATISTICS |           |               | 20                 | 20          | 20                  | 20                       | 20            | 20         | 20          | 20             | 20          | 20          |
| % SAMP (EXCLUDED)    |           |               |                    |             |                     |                          |               |            |             |                |             |             |

| *=INTERIM TEST-NAME: |           | P2ATRA        | P2CYAN        | P2CYPR        | P2DATR        | P2PROM                | P2SENC        | P2SIM       | P3DICA        | P3MCPA       | P3MCPB    |           |
|----------------------|-----------|---------------|---------------|---------------|---------------|-----------------------|---------------|-------------|---------------|--------------|-----------|-----------|
| SAMPLE DATE          | YMMDD LMT | SAMPLE NUMBER | ATRAZINE NG/L | CYNAZINE NG/L | CYPRAZIN NG/L | DE-ETYL ATRAZINE NG/L | PROMETON NG/L | SENCOR NG/L | SIMAZINE NG/L | DICAMBA NG/L | MCPA NG/L | MCPB NG/L |
| 870105               | 0800      | 42400         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870119               | 0830      | 42401         | 340           | 20<W          | 20<W          | 400                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870202               | 1600      | 42402         | 360           |               | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          |              |           |           |
| 870305               | 0800      | 42403         | 360           | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870318               | 0800      | 42408         | 160           | 20<W          | 20<W          | 110                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870330               | 0800      | 42412         |               |               |               |                       |               |             |               | 100<W        | 100<W     | 100<W     |
| 870407               | 0800      | 42418         | 240           | 20<W          | 20<W          | 200                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870511               | 1000      | 42421         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870603               | 1030      | 42422         | 260           | 20<W          | 20<W          | 530                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870615               | 1400      | 42423         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870709               | 0920      | 42424         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870805               | 1410      | 42426         | 60            | 20<W          | 20<W          | 120                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870818               | 1040      | 42427         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870902               | 0900      | 42428         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 870916               | 1245      | 42429         | 20<W          | 20<W          | 20<W          | 20<W                  | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 871001               | 0915      | 42430         | 260           | 20<W          | 20<W          | 200                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |
| 871014               | 1600      | 42431         | 230           | 20<W          | 20<W          | 170                   | 20<W          | 20<W        | 20<W          | 100<W        | 100<W     | 100<W     |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER

STATION ID: 08-0123-030-82

SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGoyNE SR-6

STATION TYPE: RIVER FLOW GAUGE FED 02FC001

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: SAUGEEN RIVER

1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

| *=INTERIM TEST-NAME: |      | P2ATRA | P2CYAN   | P2CYPR   | P2DATR   | P2PROM   | P2SENC   | P2SIM  | P3DICA   | P3MCPA  | P3MCPB |       |
|----------------------|------|--------|----------|----------|----------|----------|----------|--------|----------|---------|--------|-------|
| SAMPLE               |      |        |          |          | DE-ETYL  |          |          |        |          |         |        |       |
| DATE                 | HR   | SAMPLE | ATRAZINE | CYNAZINE | CYPRAZIN | ATRAZINE | PROMETON | SENCOR | SIMAZINE | DICAMBA | MCPA   | MCPB  |
| YYMMDD               | LMT  | NUMBER | NG/L     | NG/L     | NG/L     | NG/L     | NG/L     | NG/L   | NG/L     | NG/L    | NG/L   | NG/L  |
| 871026               | 1000 | 42432  | 250      | 20<W     | 20<W     | 170      | 20<W     | 20<W   | 20<W     | 100<W   | 100<W  | 100<W |
| 871109               | 0800 | 42433  | 300      | 20<W     | 20<W     | 20<W     | 20<W     | 20<W   | 20<W     | 100<W   | 100<W  | 100<W |
| 871110               | 0900 | 42434  | 530      | 20<W     | 20<W     | 100      | 20<W     | 20<W   | 20<W     | 100<W   | 100<W  | 100<W |
| 871111               | 0800 | 42435  | 210      | 20<W     | 20<W     | 80       | 20<W     | 20<W   | 20<W     | 100<W   | 100<W  | 100<W |
| 871130               | 0800 | 42438  | 110      | 20<W     | 20<W     | 20<W     | 20<W     | 20<W   | 20<W     | 100<W   | 100<W  | 100<W |
| MAXIMUM              |      |        | 530      | 20       | 20       | 530      | 20       | 20     | 20       | 100     | 100    | 100   |
| ARITH MEAN           |      |        | 181<A    | 20<A     | 20<A     | 110<A    | 20<A     | 20<A   | 20<A     | 100<A   | 100<A  | 100<A |
| GEOM MEAN            |      |        | 103<A    | 20<A     | 20<A     | 56<A     | 20<A     | 20<A   | 20<A     | 100<A   | 100<A  | 100<A |
| MINIMUM              |      |        | 20       | 20       | 20       | 20       | 20       | 20     | 20       | 100     | 100    | 100   |
| STD DEV (GEOM *)     |      |        | 150<A    | 0<A      | 0<A      | 137<A    | 0<A      | 0<A    | 0<A      | 0<A     | 0<A    | 0<A   |
| # SAMP IN STATISTICS |      |        | 21       | 20       | 21       | 21       | 21       | 21     | 21       | 21      | 21     | 21    |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |        |          |         |        |       |

| *=INTERIM TEST-NAME: |      | P3MCPA | P3SILV | P324D  | P324DB | P324DP | P3245T | P4CLFN | P4DEMT  | P4DIAZ   | P4DIME   |
|----------------------|------|--------|--------|--------|--------|--------|--------|--------|---------|----------|----------|
| SAMPLE               |      |        |        |        |        |        |        | CHLORO |         |          |          |
| DATE                 | HR   | SAMPLE | MCPA   | SILVEX | 2,4-D  | 2,4-DB | 2,4-DP | FENVIN | DEMETON | DIAZINON | DIMETHOK |
| YYMMDD               | LMT  | NUMBER | NG/L   | NG/L   | NG/L   | NG/L   | NG/L   | PHOS   | NG/L    | NG/L     | NG/L     |
| 870105               | 0800 | 42400  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870119               | 0830 | 42401  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870305               | 0800 | 42403  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870318               | 0800 | 42408  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870330               | 0800 | 42412  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870407               | 0800 | 42418  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870511               | 1000 | 42421  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870603               | 1030 | 42422  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870615               | 1400 | 42423  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870709               | 0920 | 42424  | 20000  | 100<W  | 10000  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870805               | 1410 | 42426  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870818               | 1040 | 42427  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870902               | 0900 | 42428  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 870916               | 1245 | 42429  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871001               | 0915 | 42430  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871014               | 1600 | 42431  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871026               | 1000 | 42432  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871109               | 0800 | 42433  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871110               | 0900 | 42434  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871111               | 0800 | 42435  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |
| 871130               | 0800 | 42438  | 100<W  | 100<W  | 100<W  | 500<W  | 100<W  | 1000<W | 1000<W  | 50<W     | 250<W    |

( C O N T D )

B.O.W./ SITE: SAUGEEN RIVER

STATION ID: 08-0123-030-82

SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOYNE SR-6

STATION TYPE: RIVER FLOW GAUGE FED 02FC001

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: SAUGEEN RIVER

1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

| *=INTERIM TEST-NAME:     |           | P3MCP            | P3SILV      | P324D          | P324DB        | P324DP         | P3245T         | P4CLFN<br>CHLORO<br>FENVIN | P4DEMT       | P4DIAZ          | P4DIME           |                  |
|--------------------------|-----------|------------------|-------------|----------------|---------------|----------------|----------------|----------------------------|--------------|-----------------|------------------|------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER | MCP<br>NG/L | SILVEX<br>NG/L | 2,4-D<br>NG/L | 2,4-DB<br>NG/L | 2,4-DP<br>NG/L | 2,4,5-T<br>NG/L            | PHOS<br>NG/L | DEMOTON<br>NG/L | DIAZINON<br>NG/L | DIMETHOK<br>NG/L |
| MAXIMUM                  |           | 20000            | 100         | 10000          | 500           | 100            | 100            | 1000                       | 1000         | 50              | 250              |                  |
| ARITH MEAN               |           | 1048<A           | 100<A       | 571<A          | 500<A         | 100<A          | 100<A          | 1000<A                     | 1000<A       | 50<A            | 250<A            |                  |
| GEOM MEAN                |           | 129<A            | 100<A       | 125<A          | 500<A         | 100<A          | 100<A          | 1000<A                     | 1000<A       | 50<A            | 250<A            |                  |
| MINIMUM                  |           | 100              | 100         | 100            | 500           | 100            | 100            | 1000                       | 1000         | 50              | 250              |                  |
| STD DEV (GEOM *)         |           | 4343<A           | 0<A         | 2160<A         | 0<A           | 0<A            | 0<A            | 0<A                        | 0<A          | 0<A             | 0<A              |                  |
| # SAMP IN STATISTICS     |           | 21               | 21          | 21             | 21            | 21             | 21             | 20                         | 20           | 20              | 20               |                  |
| % SAMP (EXCLUDED)        |           |                  |             |                |               |                |                |                            |              |                 |                  |                  |

| *=INTERIM TEST-NAME:     |           | P4DURS           | P4ETHI         | P4GUTH         | P4LEPO          | P4MALA           | P4PALO           | P4PARA           | P4PMET           | P6CARB          | P6CARY                  |                  |
|--------------------------|-----------|------------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|-------------------------|------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER | DURBAN<br>NG/L | ETHION<br>NG/L | GUTHION<br>NG/L | LEPTPHOS<br>NG/L | MALTHION<br>NG/L | PHOSLONE<br>NG/L | PARTHION<br>NG/L | PHOSMET<br>NG/L | CARBO-<br>FURAN<br>NG/L | CARBARYL<br>NG/L |
| 870105                   | 0800      | 42400            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870119                   | 0830      | 42401            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870305                   | 0800      | 42403            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870318                   | 0800      | 42408            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870330                   | 0800      | 42412            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870407                   | 0800      | 42418            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870511                   | 1000      | 42421            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870603                   | 1030      | 42422            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870615                   | 1400      | 42423            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870709                   | 0920      | 42424            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870805                   | 1410      | 42426            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870818                   | 1040      | 42427            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870902                   | 0900      | 42428            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 870916                   | 1245      | 42429            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871001                   | 0915      | 42430            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871014                   | 1600      | 42431            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871026                   | 1000      | 42432            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871109                   | 0800      | 42433            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871111                   | 0800      | 42435            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| 871130                   | 0800      | 42438            | 100<W          | 100<W          | 5000<W          | 1000<W           | 100<W            | 500<W            | 50<W             | 2000<W          | 1000<W                  | 1000<W           |
| MAXIMUM                  |           | 100              | 100            | 5000           | 1000            | 100              | 500              | 50               | 2000             | 1000            | 1000                    |                  |
| ARITH MEAN               |           | 100<A            | 100<A          | 5000<A         | 1000<A          | 100<A            | 500<A            | 50<A             | 2000<A           | 1000<A          | 1000<A                  |                  |
| GEOM MEAN                |           | 100<A            | 100<A          | 5000<A         | 1000<A          | 100<A            | 500<A            | 50<A             | 2000<A           | 1000<A          | 1000<A                  |                  |
| MINIMUM                  |           | 100              | 100            | 5000           | 1000            | 100              | 500              | 50               | 2000             | 1000            | 1000                    |                  |
| STD DEV (GEOM *)         |           | 0<A              | 0<A            | 0<A            | 0<A             | 0<A              | 0<A              | 0<A              | 0<A              | 0<A             | 0<A                     |                  |
| # SAMP IN STATISTICS     |           | 20               | 20             | 20             | 20              | 20               | 20               | 20               | 20               | 19              | 19                      |                  |
| % SAMP (EXCLUDED)        |           |                  |                |                |                 |                  |                  |                  |                  |                 |                         |                  |

( C O N T D )



B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

| *=INTERIM                         | TEST-NAME:       | P6CYCL           | P6EPTM        | P6MOLI           | P6PEBU           | P6SUTN        | P6VERN          | RSP                        |
|-----------------------------------|------------------|------------------|---------------|------------------|------------------|---------------|-----------------|----------------------------|
| SAMPLE<br>DATE HOUR<br>YYMMDD LMT | SAMPLE<br>NUMBER | CYCLOATE<br>NG/L | EPTAM<br>NG/L | MOLINATE<br>NG/L | PEBULATE<br>NG/L | SUTAN<br>NG/L | VERNATE<br>NG/L | RESIDUE<br>PARTIC.<br>MG/L |
| 870101                            | 42440            |                  |               |                  |                  |               |                 | 42.8                       |
| 870105 0800                       | 42400            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 2.8                        |
| 870119 0830                       | 42401            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 12.0                       |
| 870202 1600                       | 42402            |                  |               |                  |                  |               |                 | 8.9                        |
| 870305 0800                       | 42403            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 7.9                        |
| 870310 0800                       | 42404            |                  |               |                  |                  |               |                 | 17.6                       |
| 870311 1330                       | 42405            |                  |               |                  |                  |               |                 | 41.7                       |
| 870312 1430                       | 42406            |                  |               |                  |                  |               |                 | 37.8                       |
| 870313 0800                       | 42407            |                  |               |                  |                  |               |                 | 11.8                       |
| 870318 0800                       | 42408            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 18.5                       |
| 870323 0800                       | 42409            |                  |               |                  |                  |               |                 | 58.1                       |
| 870325 1800                       | 42410            |                  |               |                  |                  |               |                 | 145.0                      |
| 870326 0800                       | 42411            |                  |               |                  |                  |               |                 | 174.0                      |
| 870330 0800                       | 42412            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 53.9                       |
| 870331 0800                       | 42413            |                  |               |                  |                  |               |                 | 52.3                       |
| 870401 0800                       | 42414            |                  |               |                  |                  |               |                 | 37.4                       |
| 870402 0800                       | 42415            |                  |               |                  |                  |               |                 | 27.7                       |
| 870403 0800                       | 42416            |                  |               |                  |                  |               |                 | 26.1                       |
| 870406 0800                       | 42417            |                  |               |                  |                  |               |                 | 22.4                       |
| 870407 0800                       | 42418            |                  |               |                  |                  |               |                 | 69.6                       |
| 870410 0800                       | 42420            |                  |               |                  |                  |               |                 | 22.3                       |
| 870511 1000                       | 42421            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 11.2                       |
| 870603 1030                       | 42422            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 28.4                       |
| 870615 1400                       | 42423            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 12.1                       |
| 870709 0920                       | 42424            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 33.2                       |
| 870723 1320                       | 42425            |                  |               |                  |                  |               |                 | 28.0                       |
| 870805 1410                       | 42426            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 14.2                       |
| 870818 1040                       | 42427            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 22.6                       |
| 870902 0900                       | 42428            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 19.1                       |
| 870916 1245                       | 42429            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 19.9                       |
| 871001 0915                       | 42430            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 19.3                       |
| 871014 1600                       | 42431            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          |                            |
| 871026 1000                       | 42432            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 38.5                       |
| 871109 0800                       | 42433            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 125.0                      |
| 871110 0900                       | 42434            |                  |               |                  |                  |               |                 | 58.0                       |
| 871111 0800                       | 42435            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 33.1                       |
| 871113 0600                       | 42436            |                  |               |                  |                  |               |                 | 34.8                       |
| 871130 0800                       | 42438            | 1000<W           | 1000<W        | 1000<W           | 1000<W           | 1000<W        | 1000<W          | 66.7                       |
| 871201 0800                       | 42439            |                  |               |                  |                  |               |                 | 66.2                       |
| 871204 0800                       | 42441            |                  |               |                  |                  |               |                 | 13.1                       |

( C O N T D )



R.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGoyNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

| *=INTERIM TEST-NAME: |      | P6CYCL               | P6EPTM   | P6MOLI | P6PEBU   | P6SUTN   | P6VERN | RSP      |         |
|----------------------|------|----------------------|----------|--------|----------|----------|--------|----------|---------|
| SAMPLE               |      |                      |          |        |          |          |        | RESIDUE  |         |
| DATE                 | HOUR | SAMPLE               | CYCLOATE | EPTAM  | MOLINATE | PEBULATE | SUTAN  | VERNLATE | PARTIC. |
| YYMMDD               | LMT  | NUMBER               | NG/L     | NG/L   | NG/L     | NG/L     | NG/L   | NG/L     | MG/L    |
|                      |      | MAXIMUM              | 1000     | 1000   | 1000     | 1000     | 1000   | 1000     | 174.0   |
|                      |      | ARITH MEAN           | 1000<A   | 1000<A | 1000<A   | 1000<A   | 1000<A | 1000<A   | 39.3    |
|                      |      | GEOM MEAN            | 1000<A   | 1000<A | 1000<A   | 1000<A   | 1000<A | 1000<A   | 28.2    |
|                      |      | MINIMUM              | 1000     | 1000   | 1000     | 1000     | 1000   | 1000     | 2.8     |
|                      |      | STD DEV (GEOM *)     | 0<A      | 0<A    | 0<A      | 0<A      | 0<A    | 0<A      | 36.8    |
|                      |      | # SAMP IN STATISTICS | 19       | 19     | 19       | 19       | 19     | 19       | 39      |
|                      |      | % SAMP (EXCLUDED)    |          |        |          |          |        |          |         |

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC.ROAD 2.5 MILES EAST OF CARGILL  
 STATION TYPE: RIVER

STATION ID: 08-0123-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 12 19.81 LONG: 081 11 42.89 U T M: 17 0484400.0 4894500.0 4 REGION: 01 DISTANCE: 63.889

| *=INTERIM TEST-NAME: |      | FWSADP           | FGPROJ               | ALKT                        | ASUT                             | BOD5                                 | CLIDUR                   | CLIDUR                    | COND25                     | CUUT                      | DO                        |                        |
|----------------------|------|------------------|----------------------|-----------------------------|----------------------------------|--------------------------------------|--------------------------|---------------------------|----------------------------|---------------------------|---------------------------|------------------------|
|                      |      |                  |                      |                             |                                  | BOD<br>5 DAY                         | CHLORIDE                 | CHLORIDE                  | CONDUCT.                   | COPPER                    | DISOLVED                  |                        |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | ARSENIC<br>UNF.TOT.<br>MG/L<br>AS AS | TOT.DEM.<br>MG/L<br>AS O | UNF.REAC<br>MG/L<br>AS CL | UNF.REAC<br>MG/L<br>AS CL- | 25C<br>UMHO/CM<br>AT 25 C | UNF.TOT.<br>MG/L<br>AS CU | OXYGEN<br>MG/L<br>AS O |
| 870119               | 1256 | 37909            | 0.30                 | 0101                        | 265.0                            | 0.001<                               | 0.79                     |                           | 9.500                      | 605.0                     | 0.003<                    | 11.0                   |
| 870316               | 1318 | 37947            | 0.30                 | 0101                        | 243.0                            | 0.001<                               | 0.51                     |                           | 8.500                      | 565.0                     | NO DATA BT                | 12.0                   |
| 870421               | 1145 | 37966            | 0.30                 | 0101                        | 238.0                            | 0.001<                               | 1.11                     |                           | 8.000                      | 580.0                     | 0.001<W                   | 10.0                   |
| 870525               | 1320 | 37985            | 0.30                 | 0101                        | 231.0                            | 0.001<                               | 0.70                     |                           | 9.500                      | 600.0                     | 0.001<W                   | 10.0                   |
| 870615               | 1355 | 38004            | 0.30                 | 0101                        | 223.0                            | 0.001<                               | 0.69                     |                           | 9.000                      | 620.0                     | 0.001<W                   | 9.5                    |
| 870720               | 1325 | 38023            | 0.30                 | 0101                        | 206.0                            | 0.001<                               | 0.62                     |                           | 10.500                     | 615.0                     | 0.003                     | 8.0                    |
| 870817               | 1235 | 38042            | 0.30                 | 0101                        | 201.0                            | 0.001<                               | 0.69                     |                           | 10.000                     | 545.0                     | 0.002                     | 6.0                    |
| 870921               | 1246 | 38061            | 0.30                 | 0101                        | 213.4                            | 0.001<                               | 0.29                     | 11.010                    |                            | 720.0                     | 0.001                     | 9.0                    |
| 871019               | 1350 | 38080            | 0.30                 | 0101                        | 230.4                            | 0.001<                               | 0.53                     | 10.510                    |                            | 725.0                     | 0.001                     | 9.5                    |
| 871116               | 1245 | 38099            | 0.30                 | 0101                        | 236.9                            | 0.001<                               | 0.32                     | 9.620                     |                            | 580.0                     | 0.004                     | 12.0                   |
| MAXIMUM              |      | 0.30             |                      |                             | 265.0                            |                                      | 1.11                     | 11.010                    | 10.500                     | 725.0                     | 0.004                     | 12.0                   |
| ARITH MEAN           |      | 0.30             |                      |                             | 228.8                            |                                      | 0.62                     | 10.380                    | 9.286                      | 615.5                     | 0.002<A                   | 9.7                    |
| GEOM MEAN            |      |                  |                      |                             | 228.1                            |                                      | 0.58                     | 10.364                    | 9.251                      | 612.9                     |                           | 9.5                    |
| MINIMUM              |      | 0.30             |                      |                             | 201.0                            |                                      | 0.29                     | 9.620                     | 8.000                      | 545.0                     | 0.001                     | 6.0                    |
| STD DEV (GEOM *)     |      |                  |                      |                             | 19.0                             |                                      | 0.24                     | 0.704                     | 0.859                      | 60.8                      |                           | 1.8                    |
| # SAMP IN STATISTICS |      | 10               |                      |                             | 10                               |                                      | 10                       | 3                         | 7                          | 10                        | 8                         | 10                     |
| % SAMP (EXCLUDED)    |      |                  |                      |                             |                                  |                                      |                          |                           |                            |                           | 11                        |                        |

| *=INTERIM TEST-NAME: |      | FCMF                | FEUT                      | FSMF                | FWSTRC          | FWTEMP                 | NNHTUR                   | NNO2UR                   | NNO3UR                   | NNTKUR                   | PBUT                      |            |
|----------------------|------|---------------------|---------------------------|---------------------|-----------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|------------|
|                      |      | FECAL<br>COLIFORM   | IRON                      | FECAL<br>STREPCUS   |                 |                        | NH3-N<br>TOTAL           | NO2-N                    | NO3-N                    | K'DAHL N<br>TOTAL        | LEAD                      |            |
| SAMPLE<br>DATE       | HOUR | MF<br>CNT<br>/100ML | UNF.TOT.<br>MG/L<br>AS FE | MF<br>CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB |            |
| 870119               | 1256 | 37909               | 4                         | 0.064               | 4<              | 6                      | 1.0                      | 0.005<                   | 0.010<                   | 1.500                    | 0.350                     | 0.030<     |
| 870316               | 1318 | 37947               | 52                        | NO DATA BT          | 12              | 6                      | 1.0                      | 0.025                    | 0.010<                   | 1.600                    | 0.420                     | NO DATA BT |
| 870421               | 1145 | 37966               | 52                        | 0.100               | 8               | 6                      | 16.0                     | 0.030                    | 0.010                    | 1.000                    | 0.390                     | 0.003<     |
| 870525               | 1320 | 37985               | 12                        | 0.069               | 4<              | 6                      | 14.0                     | 0.020                    | 0.010<                   | 0.900                    | 0.340                     | 0.003<     |
| 870615               | 1355 | 38004               |                           | 0.130               |                 | 6                      | 23.0                     | 0.025                    | 0.010                    | 0.800                    | 0.410                     | 0.003<     |
| 870720               | 1325 | 38023               | 1500>                     | 1.100               | 330             | 6                      | 24.0                     | 0.050                    | 0.010                    | 0.100<                   | 0.540                     | 0.006      |
| 870817               | 1235 | 38042               | 170                       | 0.290               | 100             | 6                      | 23.0                     | 0.050                    | 0.020                    | 0.600                    | 0.560                     | 0.004      |
| 870921               | 1246 | 38061               | 112                       | 0.120               | 68              | 6                      | 17.0                     | 0.025                    | 0.010                    | 0.800                    | 0.370                     | 0.003<     |
| 871019               | 1350 | 38080               |                           | 0.070               |                 | 6                      | 9.0                      | 0.025                    | 0.010<                   | 1.000                    | 0.250                     | 0.003<     |
| 871116               | 1245 | 38099               | 40AID                     | 0.028               | 20AID           | 6                      | 5.5                      | 0.005<                   | 0.010                    | 1.300                    | 0.480                     | 0.003<     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

235

B.O.W./ SITE: SAUGEE RIVER  
 SAMPLE POINT: AT CONC.ROAD 2.5 MILES EAST OF CARGILL  
 STATION TYPE: RIVER

STATION ID: 08-0123-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 12 19.81 LONG: 081 11 42.89

U T M: 17 0484400.0 4894500.0 4

REGION: 01

DISTANCE: 63.889

| *=INTERIM | TEST-NAME: | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|-----------|------------|--|---|--|---------------------------|----------------------------------|--|---|---|---|---|
|-----------|------------|--|---|--|---------------------------|----------------------------------|--|---|---|---|---|

|                      |                  |     |       |     |  |      |       |       |       |       |       |
|----------------------|------------------|-----|-------|-----|--|------|-------|-------|-------|-------|-------|
|                      | MAXIMUM          | 170 | 1.100 | 330 |  | 24.0 | 0.050 | 0.020 | 1.600 | 0.560 | 0.006 |
|                      | ARITH MEAN       | 63  | 0.219 | 90  |  | 13.3 | 0.031 | 0.012 | 1.056 | 0.411 | 0.005 |
|                      | GEOM MEAN        |     | 0.118 |     |  | 8.7  |       |       |       | 0.401 |       |
|                      | MINIMUM          | 4   | 0.028 | 8   |  | 1.0  | 0.020 | 0.010 | 0.600 | 0.250 | 0.004 |
|                      | STD DEV (GEOM *) |     | 0.339 |     |  | 8.9  |       |       |       | 0.095 |       |
| # SAMP IN STATISTICS |                  | 7   | 9     | 6   |  | 10   | 8     | 6     | 9     | 10    | 2     |
| % SAMP (EXCLUDED)    |                  | 12  |       | 25  |  |      | 20    | 40    | 10    |       | 77    |

| *=INTERIM            | TEST-NAME:       | PH    | PO4UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | RST<br>RESIDUE<br>TOTAL<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |            |
|----------------------|------------------|-------|--|--|--|------------------------------------|-----------------------------------|---------------------------------|-------------------------|---|------------|
| 870119               | 1256             | 37909 | 8.37                                     | 0.001<                                       | 0.011  | 4<                                 | 399.7                             | 2.3                             | 402.0                   | 1.76                                      | 0.003      |
| 870316               | 1318             | 37947 | 8.29                                     | 0.006  | 0.022  |                                    | 355.0                             | 11.0                            | 366.0                   | 9.20                                      | NO DATA BT |
| 870421               | 1145             | 37966 | 8.29                                     | 0.002  | 0.015  | 4<                                 |                                   | 5.0<                            | 300.0                   | 4.20                                      | 0.002      |
| 870525               | 1320             | 37985 | 8.33                                     | 0.002  | 0.009  | 4<                                 | 393                               | 5.0<                            | 398.0                   | 2.90                                      | 0.001      |
| 870615               | 1355             | 38004 | 8.31                                     | 0.008  | 0.012  |                                    |                                   | 5.0<                            |                         | 3.00                                      | 0.001      |
| 870720               | 1325             | 38023 | 8.25                                     | 0.007  | 0.058  | 80                                 | 437.8                             | 38.2                            | 476.0                   | 35.00                                     | 0.005      |
| 870817               | 1235             | 38042 | 8.19                                     | 0.009  | 0.032  | 20                                 | 389.0                             | 9.0                             | 398.0                   | 8.50                                      | 0.002<     |
| 870921               | 1246             | 38061 | 8.30                                     | 0.005  | 0.022  | 4                                  | 516.0                             | 5.0<                            | 516.0                   | 4.20                                      | 0.003      |
| 871019               | 1350             | 38080 | 8.12                                     | 0.010  | 0.012  |                                    |                                   | 5.0<                            | 512.0                   | 3.10                                      | 0.002<     |
| 871116               | 1245             | 38099 | 8.19                                     | 0.007  | 0.014  | 4<                                 |                                   | 5.0<                            | 398.0                   | 2.30                                      | 0.001<     |
|                      | MAXIMUM          | 8.37  | 0.010                                    | 0.058  | 80   | 516.0                              | 38.2                              | 516.0                           | 35.00                   | 0.005                                     |            |
|                      | ARITH MEAN       | 8.26  | 0.006                                    | 0.021  | 35   | 415                                | 15.1                              | 418.4                           | 7.42                    | 0.002                                     |            |
|                      | GEOM MEAN        | 8.26  |  | 0.017  |  | 412                                |                                   | 413.0                           | 4.70                    |   |            |
|                      | MINIMUM          | 8.12  | 0.002                                    | 0.009  | 4  | 355.0                              | 2.3                               | 300.0                           | 1.76                    | 0.001                                     |            |
|                      | STD DEV (GEOM *) | 0.08  |  | 0.015  |  | 56                                 |                                   | 70.6                            | 10.01                   |   |            |
| # SAMP IN STATISTICS |                  | 10    | 9  | 10   | 3  | 6                                  | 4                                 | 9                               | 10                      | 6   |            |
| % SAMP (EXCLUDED)    |                  |       | 10                                       |  | 57   |                                    | 60                                |                                 |                         | 33  |            |

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT COUNTY ROAD 1  
 STATION TYPE: RIVER

STATION ID: 08-0123-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 02.73 LONG: 081 16 50.90 U T M: 17 0477600.0 4905100.0 4 REGION: 01 DISTANCE: 39.589

| *=INTERIM TEST-NAME:     |           | FWSADP           | FGPROJ               | ALKT                        | ALKT                             | CLIDUR                           | CLIDUR                                | COND25                                 | CUUT                                  | FCMF<br>FECAL<br>COLIFORM           | FEUT<br>IRON                      |
|--------------------------|-----------|------------------|----------------------|-----------------------------|----------------------------------|----------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------------|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER | SAMPLE<br>DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>PG/L<br>AS CAC03 | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL | CHLORIDE<br>UNF.REAC<br>MG/L<br>AS CL- | CONDUCT.<br>25C<br>UMHO/CM<br>AT 25 C | COPPER<br>UNF.TOT.<br>MG/L<br>AS CU | IRON<br>UNF.TOT.<br>MG/L<br>AS FE |
| 870119                   | 1010      | 37903            | 0.30                 | 0101                        |                                  | 262.0                            |                                       | 13.500                                 | 550.0                                 | 0.001                               | 0.094                             |
| 870216                   | 1025      | 37922            | 0.30                 | 0101                        |                                  | 284.0                            |                                       | 16.500                                 | 605.0                                 | 0.003<                              | 0.095                             |
| 870316                   | 1030      | 37941            | 0.30                 | 0101                        | 232.0                            |                                  | 13.000                                |  | 488.0                                 |                                     |                                   |
| 870421                   | 0950      | 37960            | 0.30                 | 0101                        |                                  | 243.0                            |                                       | 14.000                                 | 555.0                                 | 0.001                               | 0.120                             |
| 870525                   | 1030      | 37979            | 0.30                 | 0101                        |                                  | 237.0                            |                                       | 14.500                                 | 540.0                                 | 0.001<W                             | 0.100                             |
| 870615                   | 1100      | 37998            | 0.30                 | 0101                        |                                  | 227.0                            |                                       | 16.500                                 | 530.0                                 | 0.001<W                             | 0.170                             |
| 870720                   | 1030      | 38017            | 0.30                 | 0101                        |                                  | 200.0                            |                                       | 17.500                                 | 520.0                                 | 0.001                               | 0.240                             |
| 870817                   | 1010      | 38036            | 0.30                 | 0101                        |                                  | 203.0                            |                                       | 18.500                                 | 463.0                                 | 1.200                               | 0.150                             |
| 870921                   | 1005      | 38055            | 0.30                 | 0101                        |                                  | 203.9                            | 16.990                                |  | 525.0                                 | 0.001                               | 0.140                             |
| 871019                   | 1200      | 38074            | 0.30                 | 0101                        |                                  | 238.7                            | 17.300                                |  | 565.0                                 | 0.001                               | 0.100                             |
| 871116                   | 1030      | 38093            | 0.30                 | 0101                        |                                  | 218.1                            | 13.810                                |  | 491.0                                 | 0.003                               | 0.190                             |
| MAXIMUM                  |           | 0.30             |                      |                             | 232.0                            | 284.0                            | 17.300                                | 18.500                                 | 605.0                                 | 1.200                               | 0.240                             |
| ARITH MEAN               |           | 0.30             |                      |                             | 232.0                            | 231.7                            | 15.275                                | 15.857                                 | 530.2                                 | 0.134<A                             | 0.140                             |
| GEOM MEAN                |           |                  |                      |                             |                                  | 230.3                            | 15.156                                | 15.761                                 | 528.8                                 |                                     | 0.133                             |
| MINIMUM                  |           | 0.30             |                      |                             | 232.0                            | 200.0                            | 13.000                                | 13.500                                 | 463.0                                 | 0.001                               | 0.094                             |
| STD DEV (GEOM *)         |           |                  |                      |                             |                                  | 27.2                             | 2.188                                 | 1.887                                  | 39.8                                  |                                     | 0.049                             |
| # SAMP IN STATISTICS     |           | 11               |                      |                             | 1                                | 10                               | 4                                     | 7                                      | 11                                    | 9                                   | 10                                |
| % SAMP (EXCLUDED)        |           |                  |                      |                             |                                  |                                  |                                       |  |                                       | 10                                  |                                   |

| *=INTERIM TEST-NAME:     |           | FSMF<br>FECAL<br>STREPCUS | FWSTRC        | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PHNOL<br>PHENOLS |
|--------------------------|-----------|---------------------------|---------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|------------------|
| SAMPLE<br>DATE<br>YYMMDD | HR<br>LMT | SAMPLE<br>NUMBER          | CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH<br>PHENOL     |
| 870119                   | 1010      | 37903                     | 12            | 6               | 1.0                      | 0.005                    | 0.010<                   | 2.400                       | 0.520                    | 0.003<                    | 1.000<           |
| 870216                   | 1025      | 37922                     | 4<            | 6               | 1.0                      | 0.015                    | 0.010<                   | 2.500                       | 0.510                    | 0.030<                    | 8.01             |
| 870316                   | 1030      | 37941                     | 8             | 6               | 1.0                      | 0.010                    | 0.010<                   | 2.500                       | 0.590                    |                           | 8.13             |
| 870421                   | 0950      | 37960                     | 4<            | 6               | 16.0                     | 0.035                    | 0.020                    | 1.800                       | 0.610                    | 0.003<                    | 1.000<           |
| 870525                   | 1030      | 37979                     | 24            | 6               | 14.0                     | 0.015                    | 0.010                    | 1.700                       | 0.540                    | 0.003<                    | 8.29             |
| 870615                   | 1100      | 37998                     | 28            | 6               | 22.0                     | 0.060                    | 0.020                    | 1.100                       | 0.550                    | 0.003<                    | 8.14             |
| 870720                   | 1030      | 38017                     | 88            | 6               | 24.0                     | 0.055                    | 0.010                    | 0.100<                      | 0.600                    | 0.003<                    | 8.12             |
| 870817                   | 1010      | 38036                     |               | 6               | 25.0                     | 0.035                    | 0.010                    | 0.700                       | 0.550                    | 0.003<                    | 8.14             |
| 870921                   | 1005      | 38055                     | 200           | 6               | 12.0                     | 0.035                    | 0.010                    | 1.100                       | 0.630                    | 0.003<                    | 8.32             |
| 871019                   | 1200      | 38074                     | 4             | 6               | 10.0                     | 0.015                    | 0.010<                   | 1.200                       | 0.540                    | 0.003<                    | 8.13             |
| 871116                   | 1030      | 38093                     | 10<           | 6               | 5.0                      | 0.005<                   | 0.010                    | 1.700                       | 0.370                    | 0.003<                    | 8.10             |

( C O N T D )

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT COUNTY ROAD 1  
 STATION TYPE: RIVER

STATION ID: 08-0123-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 02.73 LONG: 081 16 50.90 U T M: 17 0477600.0 4905100.0 4 REGION: 01 DISTANCE: 39.589

| *=INTERIM TEST-NAME: |      | FMSF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH | PHNOL    |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|----|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |    |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |    | PHENOLS  |
|                      |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |    | UNF-REAC |
| SAMPLE               |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |    | UG/L     |
| DATE                 | HOUR |          | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH | PHENOL   |
| YYMMDD               | LMT  | NUMBER   |        |        |          |          |          |          |          |    |          |

|                      |  |     |  |      |       |       |       |       |  |      |  |
|----------------------|--|-----|--|------|-------|-------|-------|-------|--|------|--|
| MAXIMUM              |  | 200 |  | 25.0 | 0.060 | 0.020 | 2.500 | 0.630 |  | 8.32 |  |
| ARITH MEAN           |  | 52  |  | 11.9 | 0.028 | 0.013 | 1.670 | 0.546 |  | 8.16 |  |
| GEOM MEAN            |  |     |  | 6.9  |       |       |       | 0.542 |  | 8.16 |  |
| MINIMUM              |  | 4   |  | 1.0  | 0.005 | 0.010 | 0.700 | 0.370 |  | 8.01 |  |
| STD DEV (GEOM *)     |  |     |  | 9.2  |       |       |       | 0.070 |  | 0.09 |  |
| # SAMP IN STATISTICS |  | 7   |  | 11   | 10    | 7     | 10    | 11    |  | 11   |  |
| % SAMP (EXCLUDED)    |  | 30  |  |      | 9     | 36    | 9     |       |  |      |  |

| *=INTERIM TEST-NAME: |      | PP04UR   | PPUT     | PSAMF    | RSP     | RST     | TURB     | ZNUT     |
|----------------------|------|----------|----------|----------|---------|---------|----------|----------|
|                      |      | P04      | PHOSPHOR | PSEUDOMN |         |         |          | ZINC     |
|                      |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE | RESIDUE | TURB'ITY | UNF.TOT. |
|                      |      | MG/L     | MG/L     | MF       | PARTIC. | TOTAL   | FTU      | MG/L     |
| SAMPLE               |      | AS P     | AS P     | CNT      | MG/L    | MG/L    |          | AS ZN    |
| DATE                 | HOUR |          |          | /100ML   |         |         |          |          |
| YYMMDD               | LMT  | NUMBER   |          |          |         |         |          |          |
| 870119               | 1010 | 37903    | 0.001<   | 0.012    | 4<      | 5.0<    | 2.30     | 0.002    |
| 870216               | 1025 | 37922    | 0.001    | 0.008    | 4<      | 0.4     | 1.70     | 0.008    |
| 870316               | 1030 | 37941    | 0.011    | 0.017    | 4<      | 5.1     | 3.80     |          |
| 870421               | 0950 | 37960    | 0.002    | 0.019    | 4<      | 5.0<    | 3.30     | 0.001    |
| 870525               | 1030 | 37979    | 0.001    | 0.014    | 4<      | 5.0<    | 3.30     | 0.001<W  |
| 870615               | 1100 | 37998    | 0.006    | 0.024    | 4<      |         | 4.80     | 0.002    |
| 870720               | 1030 | 38017    | 0.006    | 0.025    | 4<      | 8.2     | 9.20     | 0.002    |
| 870817               | 1010 | 38036    | 0.004    | 0.025    |         | 5.0<    | 5.80     | 0.002<   |
| 870921               | 1005 | 38055    | 0.002    | 0.016    | 8       | 6.2     | 8.10     | 0.002<   |
| 871019               | 1200 | 38074    | 0.008    | 0.014    | 4<      | 5.0<    | 3.70     | 0.002<   |
| 871116               | 1030 | 38093    | 0.006    | 0.022    | 4<      | 5.0<    | 3.80     | 0.003    |
| MAXIMUM              |      | 0.011    | 0.025    | 8        | 8.2     |         | 9.20     | 0.008    |
| ARITH MEAN           |      | 0.005    | 0.018    | 8        | 5.0     |         | 4.53     | 0.003<A  |
| GEOM MEAN            |      |          | 0.017    |          |         |         | 4.04     |          |
| MINIMUM              |      | 0.001    | 0.008    | 8        | 0.4     |         | 1.70     | 0.001    |
| STD DEV (GEOM *)     |      |          | 0.006    |          |         |         | 2.32     |          |
| # SAMP IN STATISTICS |      | 10       | 11       | 1        | 4       |         | 11       | 7        |
| % SAMP (EXCLUDED)    |      | 9        |          | 90       | 55      |         |          | 30       |

B.O.W./ SITE: PEARL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 12 AND 13 BRANT TWP.  
 STATION TYPE: RIVER

STATION ID: 08-0123-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 14 42.56 LONG: 081 10 15.44 U T M: 17 0486350.0 4898900.0 4 REGION: 01 DISTANCE: 56.165

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     | FWSTRC | FWTEMP |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |                      |          | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | FECAL    | FECAL    |        |        |
| SAMPLE               |      | SAMPLE               | PROJECT  | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | COLIFORM | STREPCUS |        | WATER  |
| DATE                 | HOUR | DEPTH                | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MF       | STREAM | TEMP   |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CL    | AS CL-   | AT 25 C  | AS O     | CNT      | CNT      | COND.  | DEG.C  |
|                      |      | M                    |          |          |          |          |          | /100ML   | /100ML   |        |        |
| 870119               | 1200 | 37907                | 0101     |          | 10.500   | 630.0    |          | 88       | 8        | 6      | 1.0    |
| 870216               | 1236 | 37926                | 0101     |          | 10.500   | 690.0    |          | 160      | 52       | 4      | 1.0    |
| 870316               | 1245 | 37945                | 0101     |          |          |          |          | 4        | 4<       | 6      | 1.0    |
| 870421               | 1115 | 37964                | 0101     |          | 8.000    | 560.0    |          | 116      | 24       | 6      | 16.0   |
| 870525               | 1250 | 37983                | 0101     |          | 9.000    | 635.0    |          | 252      | 56       | 6      | 13.0   |
| 870615               | 1330 | 38002                | 0101     |          | 8.500    | 545.0    |          |          |          | 6      | 22.0   |
| 870720               | 1300 | 38021                | 0101     |          | 9.500    | 580.0    |          | 4500     | 2600     |        |        |
| 870817               | 1150 | 38040                | 0101     |          | 15.000   | 560.0    |          | 770      | 44       |        |        |
| 870921               | 1155 | 38059                | 0101     | 13.790   |          | 765.0    | 6.0      | 1070     | 1370     | 6      | 17.0   |
| 871019               | 1310 | 38078                | 0101     |          |          |          |          | 940      | 148      | 6      | 9.0    |
| 871116               | 1150 | 38097                | 0101     | 11.830   |          | 595.0    |          | 170AID   | 30AID    | 6      | 6.0    |
|                      |      | MAXIMUM              | 0.30     |          | 13.790   | 15.000   | 6.0      | 4500     | 2600     |        | 22.0   |
|                      |      | ARITH MEAN           | 0.30     |          | 12.810   | 10.143   | 6.0      | 807      | 481      |        | 9.6    |
|                      |      | GEOM MEAN            |          |          | 12.772   | 9.944    |          | 251      |          |        | 5.4    |
|                      |      | MINIMUM              | 0.30     |          | 11.830   | 8.000    | 6.0      | 4        | 8        |        | 1.0    |
|                      |      | STD DEV (GEOM *)     |          |          | 1.386    | 2.340    |          | 7*       |          |        | 7.9    |
|                      |      | # SAMP IN STATISTICS | 11       |          | 2        | 7        | 9        | 1        | 10       | 9      | 9      |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          | 10       |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH    | PPO4UR   | PPUT     | PSAMF    | RSP     |       |
|----------------------|------|----------|----------|----------|----------|-------|----------|----------|----------|---------|-------|
|                      |      | NH3-N    |          |          | K'DAHL N |       |          |          | PSEUDOMN |         |       |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |       | PO4      | PHOSPHOR | AERUG.   |         |       |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | MF       | RESIDUE |       |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | CNT      | PARTIC. |       |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | /100ML   | MG/L    |       |
| 870119               | 1200 | 37907    | 0.005<   | 0.010<   | 2.200    | 0.460 | 8.11     | 0.007    | 0.031    | 4<      | 10.9  |
| 870216               | 1236 | 37926    | 0.070    | 0.010<   | 2.200    | 0.900 | 7.83     | 0.012    | 0.175    | 4<      | 122.3 |
| 870316               | 1245 | 37945    |          |          |          |       |          |          |          | 4<      |       |
| 870421               | 1115 | 37964    | 0.005<   | 0.050    | 1.400    | 0.650 | 8.22     | 0.050    | 0.055    | 4<      | 5.0<  |
| 870525               | 1250 | 37983    | 0.080    | 0.040    | 1.600    | 0.620 | 8.23     | 0.015    | 0.048    | 4<      | 11.4  |
| 870615               | 1330 | 38002    | 0.050    | 0.030    | 1.000    | 0.620 | 8.26     | 0.019    | 0.052    |         | 19.8  |
| 870720               | 1300 | 38021    | 0.050    | 0.060    | 0.100<   | 0.850 | 8.06     | 0.048    | 0.140    | 52      | 39.8  |
| 870817               | 1150 | 38040    | 0.365    | 0.140    | 0.800    | 1.450 | 7.84     | 0.055    | 0.135    | 16      | 20.7  |
| 870921               | 1155 | 38059    | 0.095    | 0.050    | 1.300    | 0.850 | 8.13     | 0.046    | 0.107    | 12      | 25.6  |
| 871019               | 1310 | 38078    |          |          |          |       |          |          |          | 4       |       |
| 871116               | 1150 | 38097    | 0.005    | 0.020    | 2.000    | 0.570 | 8.10     | 0.020    | 0.045    | 4<      | 18.3  |

( C O N T D )

## 239

STATION ID: 08-0123-042-02

STORET CODE: 02  
002  
1260

U T M: 17 0486350.0 4898900.0 4

REGION: 01

**DISTANCE: 56.165**

| *INTERIM                 |             | TEST-NAME:       | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP                        |
|--------------------------|-------------|------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|------|---------------------------|------------------------------|--|----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | MG/L<br>AS N             | MG/L<br>AS N                | MG/L<br>AS N                | MG/L<br>AS N                | PH   | MG/L<br>AS P              | MG/L<br>AS P                 |  | RESIDUE<br>PARTIC.<br>MG/L |
|                          |             | MAXIMUM          | 0.365                    | 0.140                       | 2.200                       | 1.450                       | 8.26 | 0.055                     | 0.175                        | 52   | 122.3                      |
|                          |             | ARITH MEAN       | 0.102                    | 0.056                       | 1.562                       | 0.774                       | 8.09 | 0.030                     | 0.088                        | 21   | 33.6                       |
|                          |             | GEOM MEAN        |                          |                             |                             | 0.734                       | 8.09 | 0.024                     | 0.074                        |  |                            |
|                          |             | MINIMUM          | 0.005                    | 0.020                       | 0.800                       | 0.460                       | 7.83 | 0.007                     | 0.031                        | 4  | 10.9                       |
|                          |             | STD DEV (GEOM *) |                          |                             |                             | 0.293                       | 0.16 | 0.019                     | 0.052                        |  |                            |
| #                        | SAMP        | IN STATISTICS    | 7                        | 7                           | 8                           | 9                           | 9    | 9                         | 9                            | 4  | 8                          |
| %                        | SAMP        | (EXCLUDED)       | 22                       | 22                          | 11                          |                             |      |                           |                              | 60   | 11                         |

## 1987 WATER QUALITY DATA REGION 1

240

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC.ROAD 4 AND 5 SAUGEEN TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

|                      |      | LAT: 44 21 59.01 |        | LONG: 081 18 51.76 |          | U T M: 17 0474950.0 4912400.0 4 |          | REGION: 01 |          | DISTANCE: 27.358 |          |
|----------------------|------|------------------|--------|--------------------|----------|---------------------------------|----------|------------|----------|------------------|----------|
| *=INTERIM TEST-NAME: |      | FWSADP           | FGPROJ | ALKT               | BOD5     | CLIDUR                          | CLIDUR   | COND25     | CUUT     | DO               | FCMF     |
|                      |      |                  |        |                    | BOD      |                                 |          |            |          |                  | FECAL    |
|                      |      |                  |        |                    | 5 DAY    | CHLORIDE                        | CHLORIDE | CONDUCT.   | COPPER   | DISOLVED         | COLIFORM |
|                      |      |                  |        |                    | TOT.DEM. | UNF.REAC                        | UNF.REAC | 25C        | UNF.TOT. | OXYGEN           | MF       |
|                      |      |                  |        |                    | MG/L     | MG/L                            | MG/L     | UMHO/CM    | MG/L     | MG/L             | CNT      |
|                      |      |                  |        |                    | AS O     | AS CL                           | AS CL-   | AT 25 C    | AS CU    | AS O             | /100ML   |
| SAMPLE               | DATE | DATE             | DEPTH  | PROJECT            | ALK      |                                 |          |            |          |                  |          |
| DATE                 | HR   | HR               | DEPTH  | SUB-PROJ           | TOTAL    |                                 |          |            |          |                  |          |
| YYMMDD               | LMT  | NUMBER           | M      | CODE               | MG/L     |                                 |          |            |          |                  |          |
| YYMMDD               | LMT  | NUMBER           | M      | CODE               | AS CAC03 |                                 |          |            |          |                  |          |
| 870119               | 1040 | 37904            | 0.30   | 0101               | 264.0    | 0.77                            | 9.500    | 590.0      | 0.001    | 12.5             | 28       |
| 870216               | 1100 | 37923            | 0.30   | 0101               | 274.0    | 0.35                            | 11.000   | 650.0      | 0.001<W  | 12.5             | 24       |
| 870316               | 1105 | 37942            | 0.30   | 0101               | 234.0    | 0.66                            | 9.500    | 540.0      | 0.002    | 12.0             | 12       |
| 870421               | 1020 | 37961            | 0.30   | 0101               | 230.0    | 0.99                            | 9.000    | 540.0      | 0.002    | 10.0             | 24       |
| 870525               | 1105 | 37980            | 0.30   | 0101               | 228.0    | 0.76                            | 9.000    | 575.0      |          |                  | 48       |
| 870615               | 1125 | 37999            | 0.30   | 0101               | 211.0    | 0.55                            | 9.500    | 570.0      | 0.001    | 10.0             |          |
| 870720               | 1100 | 38018            | 0.30   | 0101               | 191.0    | 0.45                            | 10.000   | 555.0      | 0.002    | 10.0             | 80AID    |
| 870817               | 1040 | 38037            | 0.30   | 0101               | 184.0    | 0.61                            | 10.000   | 481.0      | 0.002    | 8.0              | 84       |
| 870921               | 1015 | 38056            | 0.30   | 0101               | 198.6    | 0.25                            | 12.000   | 625.0      | 0.003    | 10.5             | 88       |
| 871019               | 1120 | 38075            | 0.30   | 0101               | 225.6    | 0.55                            | 11.640   | 645.0      | 0.003    | 8.5              | 8        |
| 871116               | 1055 | 38094            | 0.30   | 0101               | 234.1    | 0.62                            | 10.170   | 575.0      | 0.003    | 12.0             | 140AID   |
| MAXIMUM              |      |                  | 0.30   |                    | 274.0    | 0.99                            | 12.000   | 650.0      | 0.003    | 12.5             | 140      |
| ARITH MEAN           |      |                  | 0.30   |                    | 224.9    | 0.60                            | 10.827   | 576.9      | 0.002<A  | 10.6             | 54       |
| GEOM MEAN            |      |                  |        |                    | 223.4    | 0.56                            | 10.778   | 574.9      | 0.002<A  | 10.5             | 38       |
| MINIMUM              |      |                  | 0.30   |                    | 184.0    | 0.25                            | 9.500    | 481.0      | 0.001    | 8.0              | 8        |
| STD DEV (GEOM *)     |      |                  |        |                    | 28.0     | 0.21                            | 1.187    | 49.9       | 0.001<A  | 1.6              | 3*       |
| # SAMP IN STATISTICS |      | 11               |        |                    | 11       | 11                              | 4        | 11         | 10       | 10               | 10       |
| % SAMP (EXCLUDED)    |      |                  |        |                    |          |                                 |          |            |          |                  |          |
| *=INTERIM TEST-NAME: |      | FSMF             | FWSTRC | FWTEMP             | NNHTUR   | NN02UR                          | NN03UR   | NNTKUR     | PBUT     | PH               | PP04UR   |
|                      |      | FECAL            |        |                    | NH3-N    |                                 |          | K'DAHL N   |          |                  |          |
|                      |      | STREPCUS         |        |                    | TOTAL    |                                 |          | TOTAL      |          |                  |          |
|                      |      | MF               |        |                    | UNF.REAC | UNF.REAC                        | UNF.REAC | UNF.REAC   | LEAD     |                  | P04      |
|                      |      | CNT              |        |                    | MG/L     | MG/L                            | MG/L     | MG/L       | UNF.TOT. |                  | UNF.REAC |
|                      |      | /100ML           |        |                    | AS N     | AS N                            | AS N     | AS N       | MG/L     |                  | MG/L     |
|                      |      |                  | STREAM | WATER              |          |                                 |          |            | AS PB    | PH               | AS P     |
|                      |      |                  | COND.  | TEMP               |          |                                 |          |            |          |                  |          |
|                      |      |                  |        | DEG.C              |          |                                 |          |            |          |                  |          |
| 870119               | 1040 | 37904            | 4<     | 6                  | 1.0      | 0.005                           | 0.010<   | 1.600      | 0.003<   | 8.37             | 0.001<   |
| 870216               | 1100 | 37923            | 4<     | 6                  | 1.0      | 0.015                           | 0.010<   | 1.600      | 0.003<   | 8.13             | 0.002    |
| 870316               | 1105 | 37942            | 4<     | 6                  | 1.0      | 0.030                           | 0.010<   | 1.700      | 0.003<   | 8.24             | 0.007    |
| 870421               | 1020 | 37961            | 4<     | 6                  | 15.0     | 0.030                           | 0.010    | 0.900      | 0.003<   | 8.37             | 0.001    |
| 870525               | 1105 | 37980            | 4      | 6                  | 14.0     | 0.020                           | 0.010<   | 0.800      | 0.003<   | 8.34             | 0.002    |
| 870615               | 1125 | 37999            |        | 6                  | 23.0     | 0.020                           | 0.010    | 0.700      | 0.003<   | 8.39             | 0.007    |
| 870720               | 1100 | 38018            | 230    | 6                  | 25.0     | 0.035                           | 0.010    | 0.100<     | 0.003<   | 8.45             | 0.005    |
| 870817               | 1040 | 38037            | 88     | 6                  | 24.0     | 0.025                           | 0.010    | 0.500      | 0.003<   | 8.33             | 0.003    |
| 870921               | 1015 | 38056            | 28     | 6                  | 17.0     | 0.015                           | 0.010    | 0.700      | 0.003<   | 8.40             | 0.001    |
| 871019               | 1120 | 38075            | 12     | 6                  | 10.0     | 0.010                           | 0.010<   | 1.000      | 0.003<   | 8.16             | 0.008    |
| 871116               | 1055 | 38094            | 10<    | 6                  | 5.0      | 0.005<                          | 0.010    | 1.400      | 0.003<   | 8.14             | 0.005    |

( C O N T D )



B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC.ROAD 4 AND 5 SAUGEEN TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 21 59.01 LONG: 081 18 51.76 U T M: 17 0474950.0 4912400.0 4 REGION: 01 DISTANCE: 27.358

| *=INTERIM TEST-NAME: |     | FSMF                 | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|-----|----------------------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |     | FECAL                |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |     | STREPCUS             |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
| SAMPLE               |     | MF                   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| DATE                 | HR  | CNT                  | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| YYMMDD               | LMT | /100ML               | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
|                      |     | MAXIMUM              | 230    | 25.0   | 0.035    | 0.010    | 1.700    | 0.570    |          | 8.45 | 0.008    |
|                      |     | ARITH MEAN           | 72     | 12.4   | 0.020    | 0.010    | 1.090    | 0.418    |          | 8.30 | 0.004    |
|                      |     | GEOM MEAN            |        | 7.1    |          |          |          | 0.408    |          | 8.30 |          |
|                      |     | MINIMUM              | 4      | 1.0    | 0.005    | 0.010    | 0.500    | 0.260    |          | 8.13 | 0.001    |
|                      |     | STD DEV (GEOM *)     |        | 9.4    |          |          |          | 0.096    |          | 0.11 |          |
|                      |     | # SAMP IN STATISTICS | 5      | 11     | 10       | 6        | 10       | 11       |          | 11   | 10       |
|                      |     | % SAMP (EXCLUDED)    | 50     |        | 9        | 45       | 9        |          |          |      | 9        |

| *=INTERIM TEST-NAME: |      | PPUT                 | PSAMF    | RSP     | TURB     | ZNUT     |       |
|----------------------|------|----------------------|----------|---------|----------|----------|-------|
|                      |      | PHOSPHOR             | PSEUDOMN |         |          |          |       |
|                      |      | UNF.TOT.             | AERUG.   | RESIDUE |          | ZINC     |       |
| SAMPLE               |      | MG/L                 | MF       | PARTIC. | TURB'ITY | UNF.TOT. |       |
| DATE                 | HR   | AS P                 | CNT      | MG/L    | FTU      | MG/L     |       |
| YYMMDD               | LMT  | AS P                 | /100ML   |         |          | AS ZN    |       |
| 870119               | 1040 | 37904                | 0.013    | 4<      | 5.0<     | 2.40     | 0.002 |
| 870216               | 1100 | 37923                | 0.007    | 4<      | 0.7      | 2.60     | 0.002 |
| 870316               | 1105 | 37942                | 0.049    | 4<      | 45.6     | 25.00    | 0.011 |
| 870421               | 1020 | 37961                | 0.013    | 4<      | 5.0<     | 3.80     | 0.001 |
| 870525               | 1105 | 37980                | 0.011    | 4<      | 5.0<     | 4.40     |       |
| 870615               | 1125 | 37999                | 0.012    |         | 5.0<     | 4.30     | 0.004 |
| 870720               | 1100 | 38018                | 0.027    | 4<      | 18.6     | 16.40    | 0.001 |
| 870817               | 1040 | 38037                | 0.028    | 4       | 5.0<     | 9.10     | 0.010 |
| 870921               | 1015 | 38056                | 0.013    | 4<      | 5.0      | 7.10     | 0.002 |
| 871019               | 1120 | 38075                | 0.011    | 4<      | 5.0<     | 4.20     | 0.003 |
| 871116               | 1055 | 38094                | 0.078    | 4<      | 5.0<     | 4.50     | 0.002 |
|                      |      | MAXIMUM              | 0.078    | 4       | 45.6     | 25.00    | 0.011 |
|                      |      | ARITH MEAN           | 0.024    | 4       | 17.5     | 7.62     | 0.004 |
|                      |      | GEOM MEAN            | 0.018    |         |          | 5.74     | 0.003 |
|                      |      | MINIMUM              | 0.007    | 4       | 0.7      | 2.40     | 0.001 |
|                      |      | STD DEV (GEOM *)     | 0.022    |         |          | 7.01     | 0.004 |
|                      |      | # SAMP IN STATISTICS | 11       | 1       | 4        | 11       | 10    |
|                      |      | % SAMP (EXCLUDED)    |          | 90      | 63       |          |       |

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT CHEPSTOW  
 STATION TYPE: RIVER

STATION ID: 08-0123-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 07.88 LONG: 081 17 10.87 U T M: 17 0477100.0 4888600.0 4 REGION: 01 DISTANCE: 67.591

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |       |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|--------|--------|----------|-------|
|                      |      |        |        | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |       |
|                      |      |        |        | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |       |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | PROJECT  | UMHO/CM  | MF       | MF       | STREAM | WATER  | UNF.REAC |       |
| DATE                 | DATE | DATE   | DEPTH  | SUB-PROJ | SUB-PROJ | AT 25 C  | CNT      | CNT      | COND.  | TEMP   | MG/L     |       |
| YYMMDD               | LMT  | NUMBER | M      | CODE     | CODE     | AS CL    | AS CL-   | /100ML   | /100ML | DEG.C  | AS N     |       |
| 870119               | 0940 | 37902  | 0.30   | 0101     |          | 14.500   | 565.0    | 4        | 12     | 6      | 1.0      | 0.020 |
| 870216               | 0950 | 37921  | 0.30   | 0101     |          | 16.500   | 615.0    | 4<       | 4      | 6      |          | 0.045 |
| 870316               | 1000 | 37940  | 0.30   | 0101     | 14.000   | 535.0    | 4        | 16       | 6      | 1.0    | 0.015    |       |
| 870421               | 0940 | 37959  | 0.30   | 0101     |          | 15.500   | 560.0    | 52       | 16     | 6      | 16.0     | 0.025 |
| 870525               | 1000 | 37978  | 0.30   | 0101     |          | 17.000   | 585.0    | 108      | 36     | 6      | 12.0     | 0.050 |
| 870615               | 1025 | 37997  | 0.30   | 0101     |          | 18.500   | 565.0    | 60       | 40     | 6      | 22.0     | 0.045 |
| 870720               | 0950 | 38016  | 0.30   | 0101     |          | 19.000   | 580.0    | 340      | 290    |        |          | 0.075 |
| 870817               | 0940 | 38035  | 0.30   | 0101     |          | 21.000   | 550.0    |          |        |        |          | 0.050 |
| 870921               | 0935 | 38054  | 0.30   | 0101     | 19.630   | 565.0    | 2500     | 900      | 6      | 15.0   | 0.050    |       |
| 871019               | 1000 | 38073  | 0.30   | 0101     | 22.230   | 600.0    | 20AID    | 12       | 6      | 9.0    | 0.015    |       |
| 871116               | 1000 | 38092  | 0.30   | 0101     | 15.570   | 475.0    | 330AID   | 30AID    | 6      | 5.0    | 0.005<   |       |
| MAXIMUM              |      | 0.30   |        |          | 22.230   | 21.000   | 615.0    | 2500     | 900    | 22.0   | 0.075    |       |
| ARITH MEAN           |      | 0.30   |        |          | 17.857   | 17.429   | 563.2    | 380      | 136    | 10.1   | 0.039    |       |
| GEOM MEAN            |      |        |        |          | 17.562   | 17.308   | 562.0    |          | 33     | 6.4    |          |       |
| MINIMUM              |      | 0.30   |        |          | 14.000   | 14.500   | 475.0    | 4        | 4      | 1.0    | 0.015    |       |
| STD DEV (GEOM *)     |      |        |        |          | 3.758    | 2.225    | 36.8     |          | 5*     | 7.5    |          |       |
| # SAMP IN STATISTICS |      | 11     |        |          | 4        | 7        | 11       | 9        | 10     | 8      | 10       |       |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          | 10       |        |        | 9        |       |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | PSAMF    | RSP     |      |
|----------------------|------|----------|----------|----------|-------|----------|----------|----------|---------|------|
|                      |      | N02-N    | N03-N    | K'DAHL N |       | P04      | PHOSPHOR | PSEUDOMN |         |      |
|                      |      | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | AERUG.   |         |      |
| SAMPLE               | DATE | DATE     | DATE     | DATE     | PH    | MG/L     | MG/L     | MF       | RESIDUE |      |
| DATE                 | DATE | DATE     | DATE     | DATE     | PH    | AS P     | AS P     | CNT      | PARTIC. |      |
| YYMMDD               | LMT  | NUMBER   | AS N     | AS N     | AS N  | AS P     | AS P     | /100ML   | MG/L    |      |
| 870119               | 0940 | 37902    | 0.010<   | 2.800    | 0.570 | 8.00     | 0.003    | 0.016    | 4<      | 5.0< |
| 870216               | 0950 | 37921    | 0.010<   | 2.800    | 0.580 | 7.74     | 0.007    | 0.020    | 4<      | 2.6  |
| 870316               | 1000 | 37940    | 0.010<   | 2.700    | 0.610 | 7.91     | 0.012    | 0.019    | 4<      | 5.3  |
| 870421               | 0940 | 37959    | 0.030    | 2.200    | 0.740 | 8.00     | 0.003    | 0.025    | 4<      | 5.0< |
| 870525               | 1000 | 37978    | 0.030    | 2.400    | 0.520 | 8.14     | 0.007    | 0.030    | 4<      | 5.0< |
| 870615               | 1025 | 37997    | 0.030    | 2.100    | 0.510 | 8.17     | 0.012    | 0.029    | 4<      | 5.0< |
| 870720               | 0950 | 38016    | 0.020    | 0.500    | 0.680 | 8.13     | 0.021    | 0.044    | 4<      | 11.4 |
| 870817               | 0940 | 38035    | 0.040    | 1.000    | 0.760 | 8.03     | 0.017    | 0.052    |         | 5.0< |
| 870921               | 0935 | 38054    | 0.020    | 1.500    | 0.660 | 8.14     | 0.020    | 0.048    | 4       | 11.7 |
| 871019               | 1000 | 38073    | 0.010<   | 1.700    | 0.640 | 7.82     | 0.009    | 0.022    | 4<      | 4.5  |
| 871116               | 1000 | 38092    | 0.010    | 1.800    | 0.390 | 7.96     | 0.006    | 0.064    | 4<      | 7.5  |

( C O N T D )

## 243

STORET CODE: 02  
002  
1260

| *=INTERIM                | TEST-NAME:       | NNO2UR                    | NNO3UR                    | NNTKUR   | PH   | PPO4UR                           | PPUT                                  | PSAMF                                     | RSP                        |
|--------------------------|------------------|---------------------------|---------------------------|--|------|----------------------------------|---------------------------------------|---|----------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT      | UNF .REAC<br>MG/L<br>AS N | UNF .REAC<br>MG/L<br>AS N | K'DAHL N<br>TOTAL<br>UNF .REAC<br>MG/L<br>AS N | PH   | PO4<br>UNF .REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF .TOT.<br>MG/L<br>AS P | PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RESIDUE<br>PARTIC.<br>MG/L |
|                          | MAXIMUM          | 0.040                     | 2.800                     | 0.760  | 8.17 | 0.021                            | 0.064                                 | 4   | 11.7                       |
|                          | ARITH MEAN       | 0.026                     | 1.955                     | 0.605  | 8.00 | 0.011                            | 0.034                                 | 4   | 7.2                        |
|                          | GEOM MEAN        |                           | 1.771                     | 0.596  | 8.00 | 0.009                            | 0.030                                 |   |                            |
|                          | MINIMUM          | 0.010                     | 0.500                     | 0.390  | 7.74 | 0.003                            | 0.016                                 | 4   | 2.6                        |
|                          | STD DEV (GEOM *) |                           | 0.747                     | 0.108  | 0.14 | 0.006                            | 0.016                                 |   |                            |
| # SAMP IN STATISTICS     |                  | 7                         | 11                        | 11   | 11   | 11                               | 11                                    | 1   | 6                          |
| % SAMP (EXCLUDED)        |                  | 36                        |                           |  |      |                                  |                                       | 90  | 45                         |

B.O.W./ SITE: PEARL CREEK  
 SAMPLE POINT: AT 10TH CONC BRANT TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

|                      |                | LAT: 44 13 50.82     |              | LONG: 081 08 51.90 |                   | U T M: 17 0488200.0 4897300.0 4 |                 | REGION: 01 |              | DISTANCE: 60.671 |          |
|----------------------|----------------|----------------------|--------------|--------------------|-------------------|---------------------------------|-----------------|------------|--------------|------------------|----------|
| *=INTERIM TEST-NAME: |                | FWSADP               | FGPROJ       | CLIDUR             | CLIDUR            | COND25                          | FCMF            | FSMF       | FWSTRC       | FWTEMP           | NNHTUR   |
|                      |                |                      |              |                    |                   |                                 | FECAL           | FECAL      |              |                  | NH3-N    |
|                      |                |                      |              |                    |                   |                                 | COLIFORM        | STREPCUS   |              |                  | TOTAL    |
|                      |                |                      |              |                    |                   |                                 | MF              | MF         |              |                  | UNF.REAC |
|                      |                |                      |              |                    |                   |                                 | CNT             | CNT        |              |                  | MG/L     |
|                      |                |                      |              |                    |                   |                                 | /100ML          | /100ML     |              |                  | AS N     |
| SAMPLE DATE          | YEAR MONTH DAY | SAMPLE NUMBER        | SAMPLE DEPTH | PROJECT SUB-PROJ   | CHLORIDE UNF.REAC | CHLORIDE UNF.REAC               | CONDUCT. 25C    |            |              | WATER TEMP       |          |
| YYMMDD               | LMT            |                      | M            | CODE               | MG/L AS CL        | MG/L AS CL-                     | UMHO/CM AT 25 C |            | STREAM COND. | DEG.C            | AS N     |
| 870119               | 1235           | 37908                | 0.30         | 0101               |                   | 13.500                          | 660.0           | 172        | 52           | 6                | 0.005<   |
| 870216               | 1250           | 37927                | 0.30         | 0101               |                   | 12.500                          | 670.0           | 44         | 4<           | 6                | 0.030    |
| 870316               | 1300           | 37946                | 0.30         | 0101               |                   | 12.000                          | 595.0           | 152        | 180          | 6                | 0.100    |
| 870421               | 1130           | 37965                | 0.30         | 0101               |                   | 11.000                          | 650.0           | 72         | 20           | 6                | 0.025    |
| 870525               | 1305           | 37984                | 0.30         | 0101               |                   | 13.000                          | 595.0           | 340        | 108          | 6                |          |
| 870615               | 1345           | 38003                | 0.30         | 0101               |                   | 12.000                          | 635.0           |            |              | 6                | 0.050    |
| 870720               | 1315           | 38022                | 0.30         | 0101               |                   | 14.500                          | 605.0           | 4900       | 5400         |                  | 0.025    |
| 870817               | 1200           | 38041                | 0.30         | 0101               |                   | 19.500                          | 685.0           | 1500>      | 2000         |                  | 0.025    |
| 870921               | 1230           | 38060                | 0.30         | 0101               | 19.960            |                                 | 670.0           | 1500>      |              | 6                | 0.365    |
| 871019               | 1330           | 38079                | 0.30         | 0101               | 13.210            |                                 | 695.0           |            |              | 6                | 0.010    |
| 871116               | 1230           | 38098                | 0.30         | 0101               | 17.180            |                                 | 635.0           | 50AID      | 20AID        | 6                | 0.005<   |
|                      |                | MAXIMUM              | 0.30         |                    | 19.960            | 19.500                          | 695.0           | 4900       | 5400         | 22.0             | 0.365    |
|                      |                | ARITH MEAN           | 0.30         |                    | 16.783            | 13.500                          | 645.0           | 819        | 1111         | 9.3              | 0.079    |
|                      |                | GEOM MEAN            |              |                    | 16.546            | 13.306                          | 644.1           |            |              | 5.4              |          |
|                      |                | MINIMUM              | 0.30         |                    | 13.210            | 11.000                          | 595.0           | 44         | 20           | 1.0              | 0.010    |
|                      |                | STD DEV (GEOM *)     |              |                    | 3.392             | 2.646                           | 35.2            |            |              | 7.6              |          |
|                      |                | * SAMP IN STATISTICS | 11           |                    | 3                 | 8                               | 11              | 7          | 7            | 9                | 8        |
|                      |                | % SAMP (EXCLUDED)    |              |                    |                   |                                 |                 | 22         | 22           |                  | 20       |
| *=INTERIM TEST-NAME: |                | NNO2UR               | NNO3UR       | NNTKUR             | PH                | PP04UR                          | PPUT            | RSP        |              |                  |          |
|                      |                |                      |              | K'DAHL N           |                   |                                 |                 |            |              |                  |          |
|                      |                |                      |              | TOTAL              |                   |                                 |                 |            |              |                  |          |
|                      |                |                      |              |                    |                   |                                 |                 |            |              |                  |          |
|                      |                |                      |              |                    |                   |                                 |                 |            |              |                  |          |
|                      |                |                      |              |                    |                   |                                 |                 |            |              |                  |          |
| SAMPLE DATE          | YEAR MONTH DAY | SAMPLE NUMBER        | UNF.REAC     | UNF.REAC           | UNF.REAC          | UNF.REAC                        | PHOSPHOR        | RESIDUE    |              |                  |          |
| YYMMDD               | LMT            |                      | MG/L AS N    | MG/L AS N          | MG/L AS N         | MG/L AS P                       | MG/L AS P       | PARTIC.    |              |                  |          |
| 870119               | 1235           | 37908                | 0.010<       | 3.100              | 0.370             | 8.18                            | 0.003           | 0.020      | 5.0<         |                  |          |
| 870216               | 1250           | 37927                | 0.010<       | 3.100              | 0.350             | 8.04                            | 0.008           | 0.020      | 3.8          |                  |          |
| 870316               | 1300           | 37946                | 0.010        | 3.700              | 0.560             | 8.05                            | 0.018           | 0.048      | 14.9         |                  |          |
| 870421               | 1130           | 37965                | 0.040        | 2.700              | 0.550             | 8.19                            | 0.017           | 0.058      | 5.0<         |                  |          |
| 870525               | 1305           | 37984                | 0.030        | 2.400              | 0.530             | 8.20                            | 0.016           | 0.050      | 8.5          |                  |          |
| 870615               | 1345           | 38003                | 0.030        | 2.000              | 0.880             | 8.16                            | 0.013           | 0.122      | 82.3         |                  |          |
| 870720               | 1315           | 38022                | 0.040        | 0.100<             | 1.040             | 8.01                            | 0.068           | 0.140      | 37.6         |                  |          |
| 870817               | 1200           | 38041                | 0.030        | 1.500              | 0.740             | 8.03                            | 0.040           | 0.080      | 19.4         |                  |          |
| 870921               | 1230           | 38060                | 0.030        | 0.900              | 1.360             | 8.01                            | 0.085           | 0.164      | 24.1         |                  |          |
| 871019               | 1330           | 38079                | 0.010<       | 2.700              | 0.300             | 8.00                            | 0.013           | 0.018      | 5.0<         |                  |          |
| 871116               | 1230           | 38098                | 0.010        | 2.700              | 0.410             | 8.08                            | 0.013           | 0.026      | 4.7          |                  |          |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

245

B.O.W./ SITE: PEARL CREEK  
 SAMPLE POINT: AT 10TH CONC BRANT TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 13 50.82 LONG: 081 08 51.90 U T M: 17 0488200.0 4897300.0 4 REGION: 01 DISTANCE: 60.671

| *=INTERIM TEST-NAME: |                    | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     |
|----------------------|--------------------|----------|----------|----------|------|----------|----------|---------|
|                      |                    | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR |         |
| SAMPLE               |                    | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE |
| DATE                 | HOUR               | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. |
| YYMMDD               | LMT                | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    |
|                      | MAXIMUM            | 0.040    | 3.700    | 1.360    | 8.20 | 0.085    | 0.164    | 82.3    |
|                      | ARITH MEAN         | 0.027    | 2.480    | 0.645    | 8.09 | 0.027    | 0.068    | 24.4    |
|                      | GEOM MEAN          |          |          | 0.578    | 8.09 | 0.018    | 0.051    |         |
|                      | MINIMUM            | 0.010    | 0.900    | 0.300    | 8.00 | 0.003    | 0.018    | 3.8     |
|                      | STD DEV (GEOM *)   |          |          | 0.331    | 0.08 | 0.027    | 0.052    |         |
| #                    | SAMP IN STATISTICS | 8        | 10       | 11       | 11   | 11       | 11       | 8       |
| %                    | SAMP (EXCLUDED)    | 27       | 9        |          |      |          |          | 27      |

B.O.W./ SITE: SOUTH SAUGEEN RIVER  
 SAMPLE POINT: AT 7TH.AVE SOUTH OF HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 02.72 LONG: 081 01 43.51

U T M: 17 0497700.0 4886550.0 4

REGION: 01

DISTANCE: 96.880

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ | ALKT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FEUT     | FSMF     |
|----------------------|------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |        |          |          |          |          |          | FECAL    |          | FECAL    |
|                      |      |                      |        |          | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | COLIFORM | IRON     | STREPCUS |
|                      |      |                      |        |          | TOTAL    | UNF.REAC | UNF.REAC | 25C      | MF       | TOT.     | MF       |
|                      |      |                      |        |          | MG/L     | MG/L     | MG/L     | UMHO/CM  | CNT      | MG/L     | CNT      |
|                      |      |                      |        |          | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | /100ML   | AS FE    | /100ML   |
| SAMPLE               | DATE | TIME                 | DEPTH  | PROJECT  |          |          |          |          |          |          |          |
| YYMMDD               | MMDD | HHMM                 | M      | SUB-PROJ |          |          |          |          |          |          |          |
| YYMMDD               | MMDD | HHMM                 | M      | CODE     |          |          |          |          |          |          |          |
| 870119               | 1358 | 37912                | 0.30   | 0101     | 272.0    |          | 9.000    | 695.0    | 0.006    | 36       | 12       |
| 870216               | 1405 | 37931                | 0.30   | 0101     | 285.0    |          | 9.500    | 810.0    | 0.003<   | 4<       | 4<       |
| 870316               | 1415 | 37950                | 0.30   | 0101     | 246.0    |          | 8.500    | 625.0    | 0.001<W  | 80       | 40       |
| 870421               | 1325 | 37969                | 0.30   | 0101     | 240.0    |          | 8.500    | 660.0    | 0.001<W  | 4        | 4<       |
| 870525               | 1410 | 37988                | 0.30   | 0101     | 228.0    |          | 9.500    | 775.0    | 0.003<   | 36       | 40       |
| 870615               | 1450 | 38007                | 0.30   | 0101     | 215.0    |          | 9.500    | 835.0    | 0.003<   |          |          |
| 870720               | 1450 | 38026                | 0.30   | 0101     | 204.0    |          | 8.500    | 750.0    | 0.003<   | 600>     | 244      |
| 870817               | 1345 | 38045                | 0.30   | 0101     | 219.0    |          | 9.500    | 815.0    | 0.003<   | 312      | 140      |
| 870921               | 1335 | 38064                | 0.30   | 0101     | 211.9    | 9.750    |          | 870.0    |          | 200      | 248      |
| 871019               | 1440 | 38083                | 0.30   | 0101     | 229.7    | 9.650    |          | 870.0    | 0.002    |          |          |
| 871116               | 1345 | 38102                | 0.30   | 0101     | 241.7    | 9.830    |          | 655.0    | 0.004    | 50AID    | 30AID    |
|                      |      | MAXIMUM              | 0.30   |          | 285.0    | 9.830    | 9.500    | 870.0    | 0.006    | 312      | 248      |
|                      |      | ARITH MEAN           | 0.30   |          | 235.7    | 9.743    | 9.062    | 760.0    | 0.003<A  | 103      | 108      |
|                      |      | GEOM MEAN            |        |          | 234.5    | 9.743    | 9.051    | 755.2    |          |          |          |
|                      |      | MINIMUM              | 0.30   |          | 204.0    | 9.650    | 8.500    | 625.0    | 0.001    | 4        | 12       |
|                      |      | STD DEV (GEOM *)     |        |          | 25.1     | 0.090    | 0.496    | 89.0     |          |          |          |
|                      |      | # SAMP IN STATISTICS | 11     |          | 11       | 3        | 8        | 11       | 5        | 7        | 7        |
|                      |      | % SAMP (EXCLUDED)    |        |          |          |          |          | 50       |          | 22       | 22       |
| *=INTERIM TEST-NAME: |      | FWSTRC               | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH       | PHNOL    | PP04UR   |
|                      |      |                      |        | NH3-N    |          |          | K'DAHL N |          |          |          |          |
|                      |      |                      |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |          | PHENOLS  | P04      |
|                      |      |                      |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |          | UNF-REAC | UNF.REAC |
|                      |      |                      |        | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |          | UG/L     | MG/L     |
|                      |      |                      |        | AS N     | AS N     | AS N     | AS N     | AS PB    |          | PHENOL   | AS P     |
| SAMPLE               | DATE | TIME                 | STREAM | WATER    |          |          |          |          |          |          |          |
| YYMMDD               | MMDD | HHMM                 | COND.  | TEMP     |          |          |          |          |          |          |          |
| YYMMDD               | MMDD | HHMM                 | COND.  | DEG.C    |          |          |          |          |          |          |          |
| 870119               | 1358 | 37912                |        |          | 0.005<   | 0.010<   | 1.700    | 0.370    | 0.030<   | 8.32     | 0.001<   |
| 870216               | 1405 | 37931                | 6      | 1.0      | 0.040    | 0.010<   | 1.700    | 0.450    | 0.030<   | 8.06     | 0.007    |
| 870316               | 1415 | 37950                | 6      | 1.0      | 0.025    | 0.010<   | 1.700    | 0.510    | 0.003    | 8.21     | 0.005    |
| 870421               | 1325 | 37969                | 6      | 16.0     | 0.035    | 0.010    | 1.100    | 0.450    | 0.003<   | 8.28     | 0.001<   |
| 870525               | 1410 | 37988                | 6      | 14.0     | 0.025    | 0.010<   | 1.000    | 0.410    | 0.030<   | 8.29     | 0.001    |
| 870615               | 1450 | 38007                | 6      | 23.0     | 0.035    | 0.010    | 0.700    | 0.390    | 0.030<   | 8.26     | 0.004    |
| 870720               | 1450 | 38026                | 6      | 23.0     | 0.050    | 0.010    | 0.100<   | 0.560    | 0.051    | 8.25     | 0.009    |
| 870817               | 1345 | 38045                | 6      | 22.0     | 0.040    | 0.010    | 0.400    | 0.510    | 0.030<   | 8.14     | 0.005    |
| 870921               | 1335 | 38064                | 6      | 17.0     | 0.030    | 0.010    | 0.600    | 0.380    |          | 8.30     | 0.009    |
| 871019               | 1440 | 38083                | 6      | 9.0      | 0.027    | 0.010<   | 1.000    | 0.340    | 0.003<   | 8.01     | 0.010    |
| 871116               | 1345 | 38102                | 6      | 6.0      | 0.005    | 0.010<   | 1.300    | 0.430    | 0.003<   | 8.16     | 0.005    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

247

B.O.W./ SITE: SOUTH SAUGEEN RIVER  
 SAMPLE POINT: AT 7TH.AVE SOUTH OF HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 02.72 LONG: 081 01 43.51 U T M: 17 0497700.0 4886550.0 4 REGION: 01 DISTANCE: 96.880

| *=INTERIM TEST-NAME: |             | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT. | PH                        | PHNOL<br>PHENOLS<br>UNF-REAC | PP04UR<br>P04<br>UNF.REAC |                     |
|----------------------|-------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|---------------------------|---------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                           | PHENOL<br>UG/L<br>PHENOL  | P04<br>MG/L<br>AS P |
| MAXIMUM              |             |                  |                 | 23.0                     | 0.050                       | 0.010                       | 1.700                       | 0.560                    | 0.051                     | 8.32                         |                           | 0.010               |
| ARITH MEAN           |             |                  |                 | 13.2                     | 0.031                       | 0.010                       | 1.120                       | 0.436                    | 0.027                     | 8.21                         |                           | 0.006               |
| GEOM MEAN            |             |                  |                 | 8.7                      |                             |                             |                             | 0.432                    |                           | 8.21                         |                           |                     |
| MINIMUM              |             |                  |                 | 1.0                      | 0.005                       | 0.010                       | 0.400                       | 0.340                    | 0.003                     | 8.01                         |                           | 0.001               |
| STD DEV (GEOM *)     |             |                  |                 | 8.6                      |                             |                             |                             | 0.068                    |                           | 0.10                         |                           |                     |
| # SAMP IN STATISTICS |             |                  |                 | 10                       | 10                          | 5                           | 10                          | 11                       | 2                         | 11                           |                           | 9                   |
| % SAMP (EXCLUDED)    |             |                  |                 |                          | 9                           | 54                          | 9                           |                          | 80                        |                              |                           | 18                  |

| *=INTERIM TEST-NAME: |             | PPUT<br>PHOSPHOR<br>UNF.TOT. | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT. |
|----------------------|-------------|------------------------------|---------------------------|-------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER             | MG/L<br>AS P              | MG/L                    | MG/L<br>AS ZN            |
| 870119               | 1358        | 37912                        | 0.013                     | 5.0<                    | 1.81                     |
| 870216               | 1405        | 37931                        | 0.030                     | 4.9                     | 3.60                     |
| 870316               | 1415        | 37950                        | 0.023                     | 12.8                    | 6.60                     |
| 870421               | 1325        | 37969                        | 0.015                     | 5.0<                    | 2.60                     |
| 870525               | 1410        | 37988                        | 0.012                     | 5.0<                    | 2.20                     |
| 870615               | 1450        | 38007                        | 0.014                     | 5.0<                    | 29.00                    |
| 870720               | 1450        | 38026                        | 0.036                     | 19.6                    | 14.20                    |
| 870817               | 1345        | 38045                        | 0.027                     | 2.9                     | 3.30                     |
| 870921               | 1335        | 38064                        | 0.022                     | 5.0<                    | 4.50                     |
| 871019               | 1440        | 38083                        | 0.015                     | 5.0<                    | 1.46                     |
| 871116               | 1345        | 38102                        | 0.028                     | 5.0<                    | 2.10                     |
| MAXIMUM              |             | 0.036                        | 19.6                      | 29.00                   | 0.011                    |
| ARITH MEAN           |             | 0.021                        | 10.0                      | 6.49                    | 0.005                    |
| GEOM MEAN            |             | 0.020                        |                           | 4.03                    |                          |
| MINIMUM              |             | 0.012                        | 2.9                       | 1.46                    | 0.002                    |
| STD DEV (GEOM *)     |             | 0.008                        |                           | 8.30                    |                          |
| # SAMP IN STATISTICS |             | 11                           | 4                         | 11                      | 8                        |
| % SAMP (EXCLUDED)    |             |                              | 63                        |                         | 20                       |

B.O.W./ SITE: SOUTH SAUGEE RIVER  
 SAMPLE POINT: PROTON TWP, CONC 8 2.3 KM E OF  
 STATION TYPE: RIVER

GREY CO RD 14

STATION ID: 08-0123-047-02

STORET CODE:

LAT: 44 05 12.05 LONG: 080 30 41.81 U T M: 17 0539100.0 4881400.0 4 REGION: 01

| *=INTERIM TEST-NAME: |           | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FSMF     |
|----------------------|-----------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |           |        |        |          | BOD      |          |          |          |          | FECAL    | FECAL    |
|                      |           |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | COLIFORM | STREPCUS |
|                      |           |        |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | MF       | MF       |
|                      |           |        |        |          | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | CNT      | CNT      |
|                      |           |        |        |          | AS CAC03 | AS O     | AS CL    | AT 25 C  | AS CU    | /100ML   | /100ML   |
| SAMPLE               | DATE HOUR | SAMPLE | DEPTH  | PROJECT  | ALK      |          |          |          |          |          |          |
| YYMMDD               | LMT       | NUMBER | M      | SUB-PROJ | TOTAL    |          |          |          |          |          |          |
|                      |           |        |        | CODE     | MG/L     |          |          |          |          |          |          |
| 870120               | 1000      | 37916  | 0.30   | 0101     | 273.0    | 0.69     |          | 505.0    | 0.001<W  | 32       | 4<       |
| 870217               | 1016      | 37935  | 0.30   | 0101     | 262.0    | 0.48     |          | 535.0    |          | 136      | 8        |
| 870422               | 0930      | 37973  | 0.30   | 0101     | 219.0    | 1.60     |          | 444.0    | 0.002    | 120      | 8        |
| 870526               | 0945      | 37992  | 0.30   | 0101     | 228.0    | 1.03     |          | 455.0    | 0.003    | 4<       | 4<       |
| 870616               | 0915      | 38011  | 0.30   | 0101     | 247.0    | 1.73     |          | 468.0    | 0.002    |          |          |
| 870721               | 0920      | 38030  | 0.30   | 0101     | 241.0    | 0.36     |          | 482.0    | 0.002    | 232      | 84       |
| 870818               | 0915      | 38049  | 0.30   | 0101     | 234.0    | 0.81     |          | 438.0    | 0.001    | 120      | 184      |
| 870922               | 0930      | 38068  | 0.30   | 0101     | 249.2    | 1.10     | 5.650    | 494.0    | 0.002    | 364      | 164      |
| 871020               | 1005      | 38087  | 0.30   | 0101     | 234.1    | 1.22     | 7.170    | 469.0    | 0.001    |          |          |
| 871117               | 1000      | 38106  | 0.30   | 0101     | 204.5    | 0.42     | 6.760    | 449.0    | 0.003    | 44       | 4        |
| MAXIMUM              |           | 0.30   |        |          | 273.0    | 1.73     | 7.170    | 535.0    | 0.003    | 364      | 184      |
| ARITH MEAN           |           | 0.30   |        |          | 239.2    | 0.94     | 6.527    | 473.9    | 0.002<A  | 150      | 75       |
| GEOM MEAN            |           |        |        |          | 238.4    | 0.83     | 6.494    | 473.0    | 0.002<A  |          |          |
| MINIMUM              |           | 0.30   |        |          | 204.5    | 0.36     | 5.650    | 438.0    | 0.001    | 32       | 4        |
| STD DEV (GEOM *)     |           |        |        |          | 20.0     | 0.48     | 0.786    | 30.5     | 0.001<A  |          |          |
| # SAMP IN STATISTICS |           | 10     |        |          | 10       | 10       | 3        | 10       | 9        | 7        | 6        |
| % SAMP (EXCLUDED)    |           |        |        |          |          |          |          |          |          | 12       | 25       |

| *=INTERIM TEST-NAME: |           | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH     | PP04UR   | PPUT     |
|----------------------|-----------|--------|--------|----------|----------|----------|----------|----------|--------|----------|----------|
|                      |           |        |        | NH3-N    |          |          | K'DAHL N |          |        |          |          |
|                      |           |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |        | P04      | PHOSPHOR |
|                      |           |        |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF.REAC | UNF.TOT. |
|                      |           |        |        | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |        | MG/L     | MG/L     |
|                      |           |        |        | AS N     | AS N     | AS N     | AS N     | AS PB    |        | AS P     | AS P     |
| SAMPLE               | DATE HOUR | SAMPLE | STREAM | WATER    |          |          |          |          |        |          |          |
| YYMMDD               | LMT       | NUMBER | COND.  | TEMP     |          |          |          |          |        |          |          |
|                      |           |        |        | DEG.C    |          |          |          |          |        |          |          |
| 870120               | 1000      | 37916  | 4      | 1.0      | 0.065    | 0.010<   | 0.400    | 0.550    | 0.003< | 7.74     | 0.001    |
| 870217               | 1016      | 37935  | 4      | 1.0      | 0.095    | 0.010    | 0.300    | 0.620    |        | 7.71     | 0.003    |
| 870422               | 0930      | 37973  | 6      | 10.0     | 0.020    | 0.010    | 0.100    | 0.680    | 0.003< | 7.97     | 0.001    |
| 870526               | 0945      | 37992  | 6      | 13.0     | 0.030    | 0.010    | 0.100<   | 0.800    | 0.003< | 7.96     | 0.001<   |
| 870616               | 0915      | 38011  |        |          | 0.080    | 0.010<   | 0.200    | 0.980    | 0.003< | 7.87     | 0.001<   |
| 870721               | 0920      | 38030  | 5      | 23.0     | 0.040    | 0.010<   | 0.100<   | 0.820    | 0.003< | 7.76     | 0.009    |
| 870818               | 0915      | 38049  | 5      | 20.0     | 0.045    | 0.010    | 0.100    | 0.900    | 0.003< | 7.66     | 0.007    |
| 870922               | 0930      | 38068  | 6      | 15.5     | 0.065    | 0.020    | 0.200    | 0.760    | 0.003< | 7.84     | 0.009    |
| 871020               | 1005      | 38087  | 6      | 8.0      | 0.005<   | 0.010<   | 0.400    | 0.650    | 0.003< | 7.80     | 0.008    |
| 871117               | 1000      | 38106  | 6      | 6.0      | 0.005<   | 0.010<   | 0.300    | 0.700    | 0.003< | 7.98     | 0.003    |
| MAXIMUM              |           |        |        | 23.0     | 0.095    | 0.020    | 0.400    | 0.980    |        | 7.98     | 0.009    |
| ARITH MEAN           |           |        |        | 10.8     | 0.055    | 0.012    | 0.250    | 0.746    |        | 7.83     | 0.005    |
| GEOM MEAN            |           |        |        | 7.1      |          |          |          | 0.736    |        | 7.83     |          |
| MINIMUM              |           |        |        | 1.0      | 0.020    | 0.010    | 0.100    | 0.550    |        | 7.66     | 0.001    |
| STD DEV (GEOM *)     |           |        |        | 7.8      |          |          |          | 0.132    |        | 0.11     |          |
| # SAMP IN STATISTICS |           |        |        | 9        | 8        | 5        | 8        | 10       |        | 10       | 8        |
| % SAMP (EXCLUDED)    |           |        |        |          | 20       | 50       | 20       |          |        |          | 20       |

( C O N T D )



B.O.W./ SITE: SOUTH SAUGEEN RIVER  
 SAMPLE POINT: PROTON TWP, CONC 8 2.3 KM E OF  
 STATION TYPE: RIVER

GREY CO RD 14

STATION ID: 08-0123-047-02

STORET CODE:

LAT: 44 05 12.05 LONG: 080 30 41.81 U T M: 17 0539100.0 4881400.0 4 REGION: 01

| *INTERIM TEST-NAME:      |             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                   |                                   |                         |   |
| 870120                   | 1000        | 37916  | 4<                                | 14.5                    | 6.30                                      |
| 870217                   | 1016        | 37935  | 4<                                | 5.2                     | 8.60                                      |
| 870422                   | 0930        | 37973  | 4<                                | 5.0<                    | 2.90                                      |
| 870526                   | 0945        | 37992  | 4<                                | 1.6                     | 3.40                                      |
| 870616                   | 0915        | 38011  |                                   | 4.7                     | 3.70                                      |
| 870721                   | 0920        | 38030  | 4<                                | 1.8                     | 3.10                                      |
| 870818                   | 0915        | 38049  | 4<                                | 2.8                     | 3.60                                      |
| 870922                   | 0930        | 38068  | 4<                                | 5.9                     | 5.20                                      |
| 871020                   | 1005        | 38087  |                                   | 5.7                     | 4.40                                      |
| 871117                   | 1000        | 38106  | 4<                                | 5.3                     | 3.20                                      |
| MAXIMUM                  |             |  |                                   | 14.5                    | 8.60                                      |
| ARITH MEAN               |             |  |                                   | 5.3                     | 4.44                                      |
| GEOM MEAN                |             |  |                                   |                         | 4.18                                      |
| MINIMUM                  |             |  |                                   | 1.6                     | 2.90                                      |
| STD DEV (GEOM *)         |             |  |                                   |                         | 1.81                                      |
| # SAMP IN STATISTICS     |             |  |                                   | 9                       | 10  |
| % SAMP (EXCLUDED)        |             |  |                                   | 10                      | 9   |

B.O.W./ SITE: SOUTH SAUGREEN RIVER  
 SAMPLE POINT: AT EGREMONT-PROTON TOWN,GREY CO  
 STATION TYPE: RIVER

STATION ID: 08-0123-048-02

STORET CODE:

LAT: 44 02 08.29 LONG: 080 34 52.67 U T M: 17 0533550.0 4875700.0 4 REGION: 01

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | FCMF     | FSMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | FECAL    | FECAL    |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | COLIFORM | STREPCUS |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MF       |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | CNT      | CNT      |
|                      |      | M      |          |          |          |          |          |          |          | /100ML   | /100ML   |
| 870120               | 1030 | 37917  | 0101     | 282.0    | 1.42     |          | 8.500    | 555.0    | 0.001    | 24       | 72       |
| 870217               | 1031 | 37936  | 0101     | 265.0    | 1.41     |          | 5.500    | 515.0    | 0.001<W  |          |          |
| 870422               | 0950 | 37974  | 0101     | 220.0    | 1.46     |          | 5.500    | 451.0    | 0.002    | 20       | 24       |
| 870526               | 1010 | 37993  | 0101     | 241.0    | 1.27     |          | 5.000    | 472.0    | 0.002    | 60       | 40       |
| 870616               | 0930 | 38012  | 0101     | 243.0    | 1.17     |          | 4.500    | 466.0    | 0.002    |          |          |
| 870721               | 0940 | 38031  | 0101     | 230.0    | 0.61     |          | 9.000    | 482.0    | 0.002    | 84       | 68       |
| 870818               | 0935 | 38050  | 0101     | 230.0    | 0.71     |          | 5.500    | 432.0    | 0.001    | 376      | 36       |
| 870922               | 0950 | 38069  | 0101     | 230.9    | 0.48     | 6.860    |          | 476.0    | 0.002    | 40       | 12       |
| 871020               | 1020 | 38088  | 0101     | 228.6    | 0.94     | 5.870    |          | 466.0    | 0.002    |          |          |
| 871117               | 1015 | 38107  | 0101     | 214.6    | 0.36     | 7.210    |          | 476.0    | 0.003    | 8        | 76       |
| MAXIMUM              |      | 0.30   |          | 282.0    | 1.46     | 7.210    | 9.000    | 555.0    | 0.003    | 376      | 76       |
| ARITH MEAN           |      | 0.30   |          | 238.5    | 0.98     | 6.647    | 6.214    | 479.1    | 0.002<A  | 87       | 47       |
| GEOM MEAN            |      |        |          | 237.7    | 0.89     | 6.622    | 6.020    | 478.1    | 0.002<A  | 43       | 40       |
| MINIMUM              |      | 0.30   |          | 214.6    | 0.36     | 5.870    | 4.500    | 432.0    | 0.001    | 8        | 12       |
| STD DEV (GEOM *)     |      |        |          | 20.6     | 0.42     | 0.695    | 1.776    | 34.1     | 0.001<A  | 3*       | 2*       |
| # SAMP IN STATISTICS |      | 10     |          | 10       | 10       | 3        | 7        | 10       | 10       | 7        | 7        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          |          |

| *=INTERIM TEST-NAME: |      | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH     | PP04UR   | PPUT     |       |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|--------|----------|----------|-------|
|                      |      |        |        | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |        | P04      | PHOSPHOR |       |
| SAMPLE               |      |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF.REAC | UNF.TOT. |       |
| DATE                 | HR   | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |        | MG/L     | MG/L     |       |
| YYMMDD               | LMT  | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH     | AS P     | AS P     |       |
| 870120               | 1030 | 37917  | 4      | 1.0      | 0.035    | 0.010<   | 0.500    | 0.680    | 0.003< | 8.26     | 0.001    | 0.049 |
| 870217               | 1031 | 37936  | 4      | 1.0      | 0.075    | 0.010<   | 0.300    | 0.550    | 0.003< | 7.62     | 0.003    | 0.014 |
| 870422               | 0950 | 37974  | 6      | 11.0     | 0.030    | 0.010    | 0.100<   | 0.620    | 0.003< | 7.91     | 0.003    | 0.028 |
| 870526               | 1010 | 37993  | 6      | 13.0     | 0.030    | 0.010<   | 0.100<   | 0.800    | 0.003< | 8.14     | 0.001<   | 0.033 |
| 870616               | 0930 | 38012  |        |          | 0.030    | 0.010<   | 0.200    | 0.740    | 0.004  | 8.23     | 0.001<   | 0.025 |
| 870721               | 0940 | 38031  | 6      | 23.0     | 0.030    | 0.010    | 0.100    | 0.690    | 0.003< | 7.85     | 0.006    | 0.027 |
| 870818               | 0935 | 38050  | 5      | 22.0     | 0.025    | 0.010<   | 0.100    | 0.740    | 0.003< | 7.96     | 0.004    | 0.030 |
| 870922               | 0950 | 38069  | 6      | 16.0     | 0.015    | 0.020    | 0.200    | 0.510    | 0.003< | 8.13     | 0.001    | 0.016 |
| 871020               | 1020 | 38088  | 6      | 8.0      | 0.005<   | 0.010<   | 0.300    | 0.520    | 0.003< | 7.92     | 0.007    | 0.015 |
| 871117               | 1015 | 38107  | 6      | 6.0      | 0.008    | 0.010<   | 0.300    | 0.640    | 0.003  | 7.98     | 0.003    | 0.034 |
| MAXIMUM              |      |        | 23.0   | 0.075    | 0.020    | 0.500    | 0.800    | 0.004    | 8.26   | 0.007    | 0.049    |       |
| ARITH MEAN           |      |        | 11.2   | 0.031    | 0.013    | 0.250    | 0.649    | 0.003    | 8.00   | 0.003    | 0.027    |       |
| GEOM MEAN            |      |        | 7.3    |          |          |          | 0.642    |          | 8.00   |          | 0.025    |       |
| MINIMUM              |      |        | 1.0    | 0.008    | 0.010    | 0.100    | 0.510    | 0.003    | 7.62   | 0.001    | 0.014    |       |
| STD DEV (GEOM *)     |      |        | 8.1    |          |          |          | 0.099    |          | 0.19   |          | 0.011    |       |
| # SAMP IN STATISTICS |      |        | 9      | 9        | 3        | 8        | 10       | 2        | 10     | 8        | 10       |       |
| % SAMP (EXCLUDED)    |      |        |        | 10       | 70       | 20       |          | 80       |        | 20       |          |       |

( C O N T D )

B.O.W./ SITE: SOUTH SAUGEEN RIVER  
 SAMPLE POINT: AT EGREMONT-PROTON TOWN,GREY CO  
 STATION TYPE: RIVER

STATION ID: 08-0123-048-02

STORET CODE:

LAT: 44 02 08.29 LONG: 080 34 52.67 U T M: 17 0533550.0 4875700.0 4 REGION: 01

| *=INTERIM TEST-NAME:     |             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |       |
|--------------------------|-------------|--|-----------------------------------|-------------------------|-----------------------------------|-------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                   |                                   |                         |                                   |       |
| 870120                   | 1030        | 37917  | 4<                                | 13.0                    | 10.20                             | 0.005 |
| 870217                   | 1031        | 37936  |                                   | 3.1                     | 4.60                              | 0.005 |
| 870422                   | 0950        | 37974  | 4<                                | 5.0<                    | 2.60                              | 0.003 |
| 870526                   | 1010        | 37993  | 4<                                | 5.0<                    | 3.00                              | 0.001 |
| 870616                   | 0930        | 38012  |                                   | 2.8                     | 2.60                              | 0.009 |
| 870721                   | 0940        | 38031  | 4<                                | 1.9                     | 2.70                              | 0.003 |
| 870818                   | 0935        | 38050  | 4<                                | 1.4                     | 2.70                              | 0.011 |
| 870922                   | 0950        | 38069  | 4<                                | 5.0<                    | 2.40                              | 0.001 |
| 871020                   | 1020        | 38088  |                                   | 5.0<                    | 2.10                              | 0.004 |
| 871117                   | 1015        | 38107  | 4<                                | 5.0<                    | 1.92                              | 0.003 |
| MAXIMUM                  |             |  |                                   | 13.0                    | 10.20                             | 0.011 |
| ARITH MEAN               |             |  |                                   | 4.4                     | 3.48                              | 0.004 |
| GEOM MEAN                |             |  |                                   |                         | 3.04                              | 0.003 |
| MINIMUM                  |             |  |                                   | 1.4                     | 1.92                              | 0.001 |
| STD DEV (GEOM *)         |             |  |                                   |                         | 2.47                              | 0.003 |
| # SAMP IN STATISTICS     |             |  |                                   | 5                       | 10                                | 10    |
| % SAMP (EXCLUDED)        |             |  |                                   | 50                      |                                   |       |

B.O.W./ SITE: SAUBLE RIVER

STATION ID: 08-0135-002-02

SAMPLE POINT: AT BRIDGE FIRST CONCESSION NORTH OF TARA

STATION TYPE: RIVER FLOW GAUGE MOE 02FA101

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: SAUBLE RIVER

STORET CODE: 02

002

1410

LAT: 44 28 46.08

LONG: 081 09 57.75

U T M: 17 0486795.0 4924925.0 4

REGION: 01

DISTANCE: 44.899

| *INTERIM TEST-NAME:  |      | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT       | DO       | FCMF     |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|------------|----------|----------|
|                      |      |        |        |          | BOD      |          |          |          |            |          |          |
|                      |      |        |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER     | DISOLVED | FECAL    |
|                      |      |        |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT.   | OXYGEN   | COLIFORM |
|                      |      |        |        | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L       | MG/L     | MF       |
| SAMPLE               | DATE | DATE   | DEPTH  | AS CACO3 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU      | AS O     | CNT      |
| DATE                 | HOUR | SAMPLE | DEPTH  | SUB-PROJ |          |          |          |          |            |          |          |
| YMMDD                | LMT  | NUMBER | M      | CODE     |          |          |          |          |            |          | /100ML   |
| 870126               | 1513 | 40614  | 0.30   | 0101     | 301.0    | 0.51     | 9.000    | 620.0    | 0.001<W    | 9.0      |          |
| 870224               | 1604 | 40623  | 0.30   | 0101     | 305.0    | 0.20     | 8.500    | 640.0    | 0.001<W    | 13.5     |          |
| 870324               | 0858 | 40638  | 0.30   | 0101     | 232.0    | 1.17     | 4.500    | 328.0    | 0.001      | 11.5     | 52       |
| 870428               | 1147 | 40647  | 0.30   | 0101     | 269.0    | 1.01     | 9.500    | 540.0    | 0.003      |          | 76       |
| 870527               | 0904 | 40662  | 0.30   | 0101     | 261.0    | 1.62     | 9.500    | 575.0    | 0.003      | 8.0      | 40       |
| 870622               | 1543 | 40671  | 0.30   | 0101     | 215.0    | 1.20     | 7.000    | 432.0    | 0.002      | 6.5      | 144      |
| 870727               | 1646 | 40686  | 0.30   | 0101     | 211.0    | 1.04     | 9.500    | 417.0    | 0.001      | 14.0     | 28       |
| 870825               | 1614 | 40695  | 0.30   | 0101     | 231.0    | 0.45     | 11.500   | 493.0    | NO DATA SM | 14.5     | 80       |
| 870929               | 0858 | 40710  | 0.30   | 0101     | 269.1    | 0.74     | 16.210   | 595.0    | 0.004      | 7.5      | 280      |
| 871027               | 1546 | 40719  | 0.30   | 0101     | 240.2    | 3.30     | 10.460   | 540.0    | 0.004      | 10.0     | 19200>   |
| 871125               | 1014 | 40734  | 0.30   | 0101     | 225.6    | 0.60     | 9.730    | 565.0    | 0.001<     | 13.0     | 464      |
| MAXIMUM              |      | 0.30   |        |          | 305.0    | 3.30     | 16.210   | 11.500   | 0.004      | 14.5     | 464      |
| ARITH MEAN           |      | 0.30   |        |          | 250.9    | 1.08     | 12.133   | 8.625    | 0.002<A    | 10.7     | 146      |
| GEOM MEAN            |      |        |        |          | 249.0    | 0.85     | 11.816   | 8.356    |            | 10.4     |          |
| MINIMUM              |      | 0.30   |        |          | 211.0    | 0.20     | 9.730    | 4.500    | 0.001      | 6.5      | 28       |
| STD DEV (GEOM *)     |      |        |        |          | 32.5     | 0.84     | 3.549    | 2.083    |            | 2.9      |          |
| # SAMP IN STATISTICS |      | 11     |        |          | 11       | 11       | 3        | 8        | 11         | 10       | 8        |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          | 10         |          | 11       |

| *INTERIM TEST-NAME: |      | FMSF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT       | PH   | PP04UR   |
|---------------------|------|----------|--------|--------|----------|----------|----------|----------|------------|------|----------|
|                     |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |            |      |          |
|                     |      | STREPCUS |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD       |      | P04      |
|                     |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT.   |      | UNF.REAC |
|                     |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L       |      | MG/L     |
|                     |      | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB      | PH   | AS P     |
| 870126              | 1513 | 40614    | 4      | 1.0    | 0.035    | 0.010    | 1.600    | 0.440    | 0.003<     | 7.76 | 0.006    |
| 870224              | 1604 | 40623    | 4      | 1.0    | 0.030    | 0.020    | 1.700    | 0.460    | 0.003<     | 7.87 | 0.001<   |
| 870324              | 0858 | 40638    | 32     | 6.0    | 0.040    | 0.010    | 1.400    | 0.620    | 0.003<     | 7.99 | 0.026    |
| 870428              | 1147 | 40647    | 20     | 8.5    | 0.005<   | 0.030    | 1.000    | 0.450    | 0.003<     | 8.05 | 0.006    |
| 870527              | 0904 | 40662    | 32     | 17.0   | 0.030    | 0.010    | 1.300    | 0.700    | 0.003<     | 8.05 | 0.006    |
| 870622              | 1543 | 40671    | 36     | 19.5   | 0.145    | 0.020    | 0.100    | 0.670    | 0.003<     | 8.07 | 0.023    |
| 870727              | 1646 | 40686    | 12     | 21.0   | 0.030    | 0.010<   | 0.100<   | 0.560    | 0.003<     | 8.34 | 0.004    |
| 870825              | 1614 | 40695    | 20     | 20.0   | 0.035    | 0.010    | 0.200    | 0.530    | NO DATA SM | 8.48 | 0.010    |
| 870929              | 0858 | 40710    | 180    | 17.5   | 0.045    | 0.020    | 0.900    | 0.680    | 0.003<     | 8.10 | 0.030    |
| 871027              | 1546 | 40719    | 13500  | 7.0    | 0.185    | 0.020    | 11.400   | 1.480    | 0.003<     | 7.81 | 0.180    |
| 871125              | 1014 | 40734    | 404    | 2.0    | 0.001<   | 0.010<   | 1.000    | 0.600    | 0.003<     | 7.85 | 0.016    |

( C O N T D )

B.O.W./ SITE: SAUBLE RIVER

STATION ID: 08-0135-002-02

SAMPLE POINT: AT BRIDGE FIRST CONCESSION NORTH OF TARA

STATION TYPE: RIVER FLOW GAUGE MOE 02FA101

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: SAUBLE RIVER

STORET CODE: 02

002

1410

LAT: 44 28 46.08

LONG: 081 09 57.75

U T M: 17 0486795.0 4924925.0 4

REGION: 01

DISTANCE: 44.899

| *INTERIM TEST-NAME: |      | FSMF                 | FWSTRC | FWTEMP | NNHTUR    | NNO2UR    | NNO3UR    | NNTKUR    | PBUT      | PH   | PP04UR    |
|---------------------|------|----------------------|--------|--------|-----------|-----------|-----------|-----------|-----------|------|-----------|
|                     |      | FECAL                |        |        | NH3-N     |           |           | K'DAHL N  |           |      |           |
|                     |      | STREPCUS             |        |        | TOTAL     | NO2-N     | NO3-N     | TOTAL     | LEAD      |      | P04       |
| SAMPLE              |      | MF                   |        | WATER  | UNF. REAC | UNF. REAC | UNF. REAC | UNF. REAC | UNF. TOT. |      | UNF. REAC |
| DATE                | HOUR | CNT                  | STREAM | TEMP   | MG/L      | MG/L      | MG/L      | MG/L      | MG/L      |      | MG/L      |
| YYMMDD              | LMT  | NUMBER               | COND.  | DEG.C  | AS N      | AS N      | AS N      | AS N      | AS PB     | PH   | AS P      |
|                     |      | MAXIMUM              |        | 21.0   | 0.185     | 0.030     | 11.400    | 1.480     |           | 8.48 | 0.180     |
|                     |      | ARITH MEAN           |        | 11.0   | 0.064     | 0.017     | 2.060     | 0.654     |           | 8.03 | 0.031     |
|                     |      | GEOM MEAN            |        | 6.9    |           |           |           | 0.615     |           | 8.03 |           |
|                     |      | MINIMUM              |        | 1.0    | 0.030     | 0.010     | 0.100     | 0.440     |           | 7.76 | 0.004     |
|                     |      | STD DEV (GEOM *)     | 9*     | 8.1    |           |           |           | 0.290     |           | 0.22 |           |
|                     |      | # SAMP IN STATISTICS | 9      | 11     | 9         | 9         | 10        | 11        |           | 11   | 10        |
|                     |      | % SAMP (EXCLUDED)    |        |        | 18        | 18        | 9         |           |           |      | 9         |

| *INTERIM TEST-NAME: |      | PPUT                 | PSAMF    | RSP     | TURB     | ZNUT       |
|---------------------|------|----------------------|----------|---------|----------|------------|
|                     |      | PHOSPHOR             | PSEUDOMN |         |          |            |
|                     |      | UNF. TOT.            | AERUG.   | RESIDUE |          | ZINC       |
| SAMPLE              |      | MG/L                 | MF       | PARTIC. | TURB'ITY | UNF. TOT.  |
| DATE                | HOUR | AS P                 | CNT      | MG/L    | FTU      | MG/L       |
| YYMMDD              | LMT  | NUMBER               | /100ML   |         |          | AS ZN      |
| 870126              | 1513 | 40614                | 0.016    | 4.2     | 4.80     | 0.001      |
| 870224              | 1604 | 40623                | 0.033    | 2.2     | 2.40     | 0.004      |
| 870324              | 0858 | 40638                | 0.057    | 4<      | 10.0     | 0.005      |
| 870428              | 1147 | 40647                | 0.030    | 4<      | 5.0<     | 0.003      |
| 870527              | 0904 | 40662                | 0.041    | 4<      | 5.8      | 0.002      |
| 870622              | 1543 | 40671                | 0.059    | 4<      | 3.2      | 0.020<     |
| 870727              | 1646 | 40686                | 0.026    | 4<      | 1.5      | 0.004      |
| 870825              | 1614 | 40695                | 0.017    | 4<      | 0.5      | NO DATA SM |
| 870929              | 0858 | 40710                | 0.055    | 12      | 2.4      | 0.002      |
| 871027              | 1546 | 40719                | 0.280    | 64C     | 15.6     | 0.008      |
| 871125              | 1014 | 40734                | 0.060    | 12      | 5.0<     | 0.002      |
|                     |      | MAXIMUM              | 0.280    | 64      | 15.6     | 0.008      |
|                     |      | ARITH MEAN           | 0.061    | 29      | 5.0      | 0.003      |
|                     |      | GEOM MEAN            | 0.043    |         |          |            |
|                     |      | MINIMUM              | 0.016    | 12      | 0.5      | 0.001      |
|                     |      | STD DEV (GEOM *)     | 0.074    |         | 4.21     |            |
|                     |      | # SAMP IN STATISTICS | 11       | 3       | 9        | 9          |
|                     |      | % SAMP (EXCLUDED)    |          | 66      | 18       | 10         |

## 254

STATION ID: 08-0135-003-02

STORET CODE: 02  
002  
1410

LAT: 44 40 36.06 LONG: 081 15 19.99 U T M: 17 0479745.0 4946850.0 4 REGION: 01 DISTANCE: 3.219

| *INTERIM       |                | TEST-NAME:       | FWFLOW                     | FWSTRC          | FWTEMP                 | NNHTUR<br>NH3-N<br>TOTAL  | NN02UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF.TOT.   | PH   | PP04UR<br>P04<br>UNF.REAC |
|----------------|----------------|------------------|----------------------------|-----------------|------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|------|---------------------------|
| SAMPLE<br>DATE | HOURL<br>YMMDD | SAMPLE<br>NUMBER | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF. REAC<br>MG/L<br>AS N | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS N   | UNF. REAC<br>MG/L<br>AS PB | PH   | UNF. REAC<br>MG/L<br>AS P |
| 870127         | 1129           | 40613            | 8.350                      | 6               | 1.0                    | 0.025                     | 0.010<                      | 0.400                       | 0.390                       | 0.003<                     | 7.96 | 0.001<                    |
| 870224         | 1528           | 40622            | 6.200                      | 6               | 0.5                    | 0.050                     | 0.010                       | 0.500                       | 0.430                       | 0.030<                     | 7.91 | 0.001<                    |
| 870324         | 0947           | 40637            | 40.000                     | 6               | 5.5                    | 0.025                     | 0.010<                      | 1.000                       | 0.480                       | 0.003<                     | 8.04 | 0.017                     |
| 870427         | 1525           | 40646            | 9.470                      | 6               |                        | 0.035                     | 0.020                       | 0.100                       | 0.410                       | 0.003<                     | 8.23 | 0.003                     |
| 870527         | 0945           | 40661            | 3.500                      | 6               | 15.0                   | 0.025                     | 0.010<                      | 0.300                       | 0.440                       | 0.003<                     | 8.11 | 0.003                     |
| 870622         | 1503           | 40670            | 2.260                      | 6               | 20.5                   | 0.035                     | 0.010                       | 0.100<                      | 0.530                       | 0.003<                     | 8.23 | 0.001<                    |
| 870727         | 1742           | 40685            | 1.420                      | 6               | 24.5                   | 0.040                     | 0.010<                      | 0.100<                      | 0.510                       | 0.003<                     | 8.23 | 0.001<                    |
| 870825         | 1535           | 40694            | 1.280                      | 6               | 20.0                   | 0.025                     | 0.010                       | 0.200                       | 0.520                       | 0.008                      | 8.25 | 0.011                     |
| 870929         | 0951           | 40709            | 1.880                      | 6               | 16.0                   | 0.030                     | 0.010                       | 0.300                       | 0.520                       | 0.003<                     | 8.17 | 0.006                     |
| 871027         | 1505           | 40718            | 16.600                     | 6               | 7.5                    | 0.032                     | 0.010                       | 0.800                       | 0.760                       | 0.003<                     | 7.99 | 0.019                     |
| 871124         | 1513           | 40733            | 21.000                     | 6               | 3.0                    | 0.001<                    | 0.010<                      | 0.100                       | 0.460                       | 0.003<                     | 7.89 | 0.001<                    |

( C O N T D )

B.O.W./ SITE: SAUBLE RIVER  
 SAMPLE POINT: AT SAUBLE FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FA001

STATION ID: 08-0135-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

| LAT: 44 40 36.06     |      | LONG: 081 15 19.99                   |  | U T M: 17 0479745.0 4946850.0 4 |                          | REGION: 01                        |                          | DISTANCE: 3.219             |                           |      |                           |
|----------------------|------|--------------------------------------|--|---------------------------------|--------------------------|-----------------------------------|--------------------------|-----------------------------|---------------------------|------|---------------------------|
| *=INTERIM TEST-NAME: |      | FWFLOW                               | FWSTRC   | FWTEMP                          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N                   | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD              | PH   | PP04UR<br>P04<br>UNF.REAC |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>FLOW<br>M3<br>/S           | STREAM<br>COND.                                    | WATER<br>TEMP<br>DEG.C          | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N          | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH   | UNF.REAC<br>MG/L<br>AS P  |
| YYMMDD               | LMT  | NUMBER                               |  |                                 |                          |                                   |                          |                             |                           |      |                           |
| MAXIMUM              |      | 40.000                               |  | 24.5                            | 0.050                    | 0.020                             | 1.000                    | 0.760                       | 0.008                     | 8.25 | 0.019                     |
| ARITH MEAN           |      | 10.178                               |  | 11.3                            | 0.032                    | 0.012                             | 0.411                    | 0.495                       | 0.008                     | 8.09 | 0.010                     |
| GEOM MEAN            |      | 5.643                                |  | 6.6                             |                          |                                   |                          | 0.488                       |                           | 8.09 |                           |
| MINIMUM              |      | 1.280                                |  | 0.5                             | 0.025                    | 0.010                             | 0.100                    | 0.390                       | 0.008                     | 7.89 | 0.003                     |
| STD DEV (GEOM *)     |      | 11.830                               |  | 8.9                             |                          |                                   |                          | 0.100                       |                           | 0.14 |                           |
| # SAMP IN STATISTICS |      | 11                                   |  | 10                              | 10                       | 6                                 | 9                        | 11                          | 1                         | 11   | 6                         |
| % SAMP (EXCLUDED)    |      |                                      |  | 9                               | 9                        | 45                                | 18                       |                             | 90                        |      | 45                        |
| *=INTERIM TEST-NAME: |      | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP                             | TURB                     | ZNUT                              |                          |                             |                           |      |                           |
|                      |      | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P |  | RESIDUE<br>PARTIC.<br>MG/L      | TURB'ITY<br>FTU          | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |                          |                             |                           |      |                           |
| SAMPLE<br>DATE       | HOUR | SAMPLE<br>NUMBER                     |  |                                 |                          |                                   |                          |                             |                           |      |                           |
| YYMMDD               | LMT  | NUMBER                               |  |                                 |                          |                                   |                          |                             |                           |      |                           |
| 870127               | 1129 | 40613                                | 0.006  | 4<                              | 5.0<                     | 1.59                              | 0.001<W                  |                             |                           |      |                           |
| 870224               | 1528 | 40622                                | 0.008  |                                 | 1.1                      | 1.12                              | 0.004                    |                             |                           |      |                           |
| 870324               | 0947 | 40637                                | 0.036  | 4<                              | 11.5                     | 7.30                              | 0.006                    |                             |                           |      |                           |
| 870427               | 1525 | 40646                                | 0.014  | 4<                              | 5.0<                     | 2.00                              | 0.004                    |                             |                           |      |                           |
| 870527               | 0945 | 40661                                | 0.016  | 4<                              | 5.0<                     | 2.20                              | 0.009                    |                             |                           |      |                           |
| 870622               | 1503 | 40670                                | 0.021  | 4<                              | 2.8                      | 2.30                              | 0.008                    |                             |                           |      |                           |
| 870727               | 1742 | 40685                                | 0.022  | 4<                              | 2.0                      | 1.77                              | 0.004                    |                             |                           |      |                           |
| 870825               | 1535 | 40694                                | 0.021  | 4<                              | 1.3                      | 1.07                              | 0.002<                   |                             |                           |      |                           |
| 870929               | 0951 | 40709                                | 0.024  | 4<                              | 2.2                      | 2.10                              | 0.002<                   |                             |                           |      |                           |
| 871027               | 1505 | 40718                                | 0.036  | 12                              | 4.9                      | 4.00                              | 0.004                    |                             |                           |      |                           |
| 871124               | 1513 | 40733                                | 0.018  |                                 | 5.0<                     | 1.37                              | 0.002                    |                             |                           |      |                           |
| MAXIMUM              |      | 0.036                                | 12   | 11.5                            | 7.30                     | 0.009                             |                          |                             |                           |      |                           |
| ARITH MEAN           |      | 0.020                                | 12   | 3.7                             | 2.44                     | 0.005<A                           |                          |                             |                           |      |                           |
| GEOM MEAN            |      | 0.018                                |  |                                 | 2.06                     |                                   |                          |                             |                           |      |                           |
| MINIMUM              |      | 0.006                                | 12   | 1.1                             | 1.07                     | 0.001                             |                          |                             |                           |      |                           |
| STD DEV (GEOM *)     |      | 0.010                                |  |                                 | 1.80                     |                                   |                          |                             |                           |      |                           |
| # SAMP IN STATISTICS |      | 11                                   | 1  | 7                               | 11                       | 9                                 |                          |                             |                           |      |                           |
| % SAMP (EXCLUDED)    |      |                                      | 88   | 36                              |                          | 18                                |                          |                             |                           |      |                           |

B.O.W./ SITE: ALBEMARBLE BROOK  
 SAMPLE POINT: AT HIGHWAY NO 6 NEAR MAR MOE SW A3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA102

STATION ID: 08-0135-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 50 03.49 LONG: 081 13 07.91

U T M: 17 0482700.0 4964350.0 4

REGION: 01

DISTANCE: 25.105

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | ASUT     | CLIDUR   | CLIDUR   | COND25   | CO60   | CS134  | CS137  |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
|                      |      |        |          | ALK      | ARSENIC  | CHLORIDE | CHLORIDE | CONDUCT. |        |        |        |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      | COBALT | CESIUM | CESIUM |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | 60     | 134    | 137    |
| YYMMDD               | LMT  | M      | CODE     | AS CACOS | AS AS    | AS CL    | AS CL-   | AT 25 C  | BQ/L   | BQ/L   | BQ/L   |
| 870127               | 0951 | 40612  | 0101     | 245.0    | 0.001<   |          | 4.000    | 468.0    |        |        |        |
| 870224               | 1445 | 40621  | 0101     | 249.0    | 0.001<   |          | 3.000    | 474.0    |        |        |        |
| 870324               | 1020 | 40636  | 0101     | 184.0    | 0.001<   |          | 3.000    | 369.0    | 0.03<  | 0.03<  | 0.03<  |
| 870427               | 1442 | 40645  | 0101     | 198.0    | 0.001<   |          | 3.000    | 370.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 870527               | 1026 | 40660  | 0101     | 204.0    | 0.001<   |          | 2.500    | 403.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 870623               | 0935 | 40669  | 0101     | 219.0    | 0.001<   |          | 2.000    | 397.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 870727               | 1847 | 40684  | 0101     | 244.0    | 0.001<   |          | 2.000    | 433.0    | 0.3    | 0.3    | 0.3    |
| 870825               | 1409 | 40693  | 0101     | 231.0    | 0.001<   |          | 2.000    | 433.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 870929               | 1017 | 40708  | 0101     | 234.8    | 0.001<   | 2.170    |          | 444.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 871027               | 1334 | 40717  | 0101     | 219.2    | 0.001<   | 5.800    |          | 426.0    | 0.3 <  | 0.3 <  | 0.3 <  |
| 871124               | 1335 | 40732  | 0101     | 215.6    | 0.001<   | 3.670    |          | 435.0    |        |        |        |
| MAXIMUM              |      | 0.30   |          | 249.0    |          | 5.800    | 4.000    | 474.0    | 0.3    | 0.3    | 0.3    |
| ARITH MEAN           |      | 0.30   |          | 222.1    |          | 3.880    | 2.687    | 422.9    | 0.3    | 0.3    | 0.3    |
| GEOM MEAN            |      |        |          | 221.2    |          | 3.588    | 2.611    | 421.6    |        |        |        |
| MINIMUM              |      | 0.30   |          | 184.0    |          | 2.170    | 2.000    | 369.0    | 0.3    | 0.3    | 0.3    |
| STD DEV (GEOM *)     |      |        |          | 20.9     |          | 1.824    | 0.704    | 35.0     |        |        |        |
| # SAMP IN STATISTICS |      | 11     |          | 11       |          | 3        | 8        | 11       | 1      | 1      | 1      |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 87     | 87     | 87     |

| *=INTERIM TEST-NAME: |      | CUUT     | FCMF     | FEUT       | FSMF     | FWSTRC | FWTEMP | GACP     | GBCP     | HH3      | II131  |
|----------------------|------|----------|----------|------------|----------|--------|--------|----------|----------|----------|--------|
|                      |      | COPPER   | FECAL    | IRON       | FECAL    |        |        | GROSS    | GROSS    |          |        |
| SAMPLE               |      | UNF.TOT. | COLIFORM | UNF.TOT.   | STREPCUS |        | WATER  | ALPHA CT | BETA CT  | TRITIUM  | IODINE |
| DATE                 | HOUR | MG/L     | MF       | MG/L       | MF       | STREAM | TEMP   | UNDISSOL | UNDISSOL | HYDROG-3 | 131    |
| YYMMDD               | LMT  | AS CU    | /100ML   | AS FE      | /100ML   | COND.  | DEG.C  | BQ/L     | BQ/L     | BQ/L     | BQ/L   |
| 870127               | 0951 | 40612    | 4<       | 0.130      | 4<       | 4      | 1.0    |          |          |          |        |
| 870224               | 1445 | 40621    |          | 0.160      |          | 4      | 1.0    |          |          |          |        |
| 870324               | 1020 | 40636    | 8        | 0.160      | 4<       | 6      | 7.0    | 0.04<    | 0.06     | 16       | 0.03<  |
| 870427               | 1442 | 40645    | 600>     | 0.260      | 116      | 6      |        | 0.04<    | 0.08     | 99       | 0.3 <  |
| 870527               | 1026 | 40660    | 264      | 0.190      | 184      | 6      | 15.5   | 0.04<    | 0.08     | 16       | 0.3 <  |
| 870623               | 0935 | 40669    | 150      | NO DATA IS | 170      | 6      | 17.0   | 0.04<    | 0.08     | 17       | 0.3 <  |
| 870727               | 1847 | 40684    | 280      | 0.640      | 600>     | 6      | 25.0   | 0.04<    | 0.11     | 20       | 0.3 <  |
| 870825               | 1409 | 40693    | 140      | 0.240      | 60AID    | 6      | 20.0   | 0.04<    | 0.07     | 11       | 0.3 <  |
| 870929               | 1017 | 40708    | 320      | 0.290      | 410      | 6      | 16.0   | 0.06     | 0.09     | 10       | 0.3 <  |
| 871027               | 1334 | 40717    | 50AID    | 0.580      | 200      | 6      | 8.0    | 0.04<    | 0.12     | 10       | 0.3 <  |
| 871124               | 1335 | 40732    |          | 0.091      |          | 6      | 3.0    |          |          |          |        |

( CONTD )



B.O.W./ SITE: ALBEMARBLE BROOK  
 SAMPLE POINT: AT HIGHWAY NO 6 NEAR MAR MOE SW A3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA102

STATION ID: 08-0135-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 50 03.49 LONG: 081 13 07.91

U T M: 17 0482700.0 4964350.0 4

REGION: 01

DISTANCE: 25.105

| *=INTERIM TEST-NAME: |     | CUUT                 | FCMF<br>FECAL<br>COLIFORM | FEUT<br>IRON     | FSMF<br>FECAL<br>STREPCUS | FWSTRC          | FWTEMP                 | GACP                                  | GBCP                                 | HH3                         | II131                 |
|----------------------|-----|----------------------|---------------------------|------------------|---------------------------|-----------------|------------------------|---------------------------------------|--------------------------------------|-----------------------------|-----------------------|
| SAMPLE<br>DATE       | HR  | UNF.TOT.<br>MG/L     | MF<br>CNT                 | UNF.TOT.<br>MG/L | MF<br>CNT                 | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | GROSS<br>ALPHA CT<br>UNDISSOL<br>BQ/L | GROSS<br>BETA CT<br>UNDISSOL<br>BQ/L | TRITIUM<br>HYDROG-3<br>BQ/L | IODINE<br>131<br>BQ/L |
| YYMMDD               | LMT | SAMPLE<br>NUMBER     | AS CU                     | AS FE            | /100ML                    |                 |                        |                                       |                                      |                             |                       |
|                      |     | MAXIMUM              | 0.002                     | 320              | 0.640                     |                 | 25.0                   | 0.06                                  | 0.12                                 | 99                          |                       |
|                      |     | ARITH MEAN           | 0.001<A                   | 173              | 0.274                     |                 | 11.3                   | 0.06                                  | 0.09                                 | 25                          |                       |
|                      |     | GEOM MEAN            |                           |                  | 0.228                     |                 | 7.2                    |                                       | 0.08                                 | 18                          |                       |
|                      |     | MINIMUM              | 0.001                     | 8                | 0.091                     |                 | 1.0                    | 0.06                                  | 0.06                                 | 10                          |                       |
|                      |     | STD DEV (GEOM *)     |                           |                  | 0.188                     |                 | 8.5                    |                                       | 0.02                                 | 30                          |                       |
|                      |     | # SAMP IN STATISTICS | 7                         | 7                | 10                        |                 | 10                     | 1                                     | 8                                    | 8                           |                       |
|                      |     | % SAMP (EXCLUDED)    | 30                        | 22               |                           |                 |                        | 87                                    |                                      |                             |                       |

| *=INTERIM TEST-NAME: |      | NIUT                 | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N  | NNO3UR<br>NO3-N  | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT             | PH         | PP04UR<br>P04    | PPUT<br>PHOSPHOR | PSAMF<br>PSEUDOMN<br>AERUG. |    |
|----------------------|------|----------------------|--------------------------|------------------|------------------|-----------------------------|------------------|------------|------------------|------------------|-----------------------------|----|
| SAMPLE<br>DATE       | HR   | UNF.TOT.<br>MG/L     | UNF.REAC<br>MG/L         | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L | UNF.REAC<br>MG/L            | UNF.TOT.<br>MG/L |            | UNF.REAC<br>MG/L | UNF.TOT.<br>MG/L | MF<br>CNT                   |    |
| YYMMDD               | LMT  | AS NI                | AS N                     | AS N             | AS N             | AS N                        | AS PB            | PH         | AS P             | AS P             | /100ML                      |    |
| 870127               | 0951 | 40612                | 0.002<                   | 0.065            | 0.010<           | 0.100                       | 0.320            | 0.003<     | 7.86             | 0.001            | 0.009                       | 4< |
| 870224               | 1445 | 40621                | 0.002<                   | 0.070            | 0.020            | 0.200                       | 0.370            | 0.003<     | 7.98             | 0.001<           | 0.141                       |    |
| 870324               | 1020 | 40636                | 0.002<                   | 0.015            | 0.010<           | 0.100<                      | 0.330            | 0.003<     | 8.17             | 0.007            | 0.016                       | 4< |
| 870427               | 1442 | 40645                | 0.002<                   | 0.015            | 0.020            | 0.100<                      | 0.390            | 0.003<     | 8.00             | 0.003            | 0.020                       | 4< |
| 870527               | 1026 | 40660                | 0.002<                   | 0.015            | 0.010<           | 0.300                       | 0.380            | 0.003<     | 7.96             | 0.002            | 0.010                       | 4< |
| 870623               | 0935 | 40669                | NO DATA IS               | 0.020            | 0.010            | 0.100<                      | 0.570            | NO DATA IS | 8.18             | 0.001<           | 0.024                       | 4< |
| 870727               | 1847 | 40684                | 0.002<                   | 0.050            | 0.010<           | 0.100<                      | 0.700            | 0.003<     | 8.29             | 0.003            | 0.034                       | 4< |
| 870825               | 1409 | 40693                | 0.002                    | 0.015            | 0.010            | 0.200                       | 0.540            | 0.014      | 8.32             | 0.008            | 0.023                       | 4< |
| 870929               | 1017 | 40708                | 0.001<                   | 0.005<           | 0.010            | 0.300                       | 0.640            | 0.003<     | 7.93             | 0.007            | 0.036                       | 4< |
| 871027               | 1334 | 40717                | 0.001<                   | 0.005<           | 0.010<           | 0.200                       | 1.480            | 0.003<     | 7.90             | 0.016            | 0.242                       | 4< |
| 871124               | 1335 | 40732                | 0.001<                   | 0.001<           | 0.010<           | 0.100<                      | 0.310            | 0.003<     | 7.89             | 0.001<           | 0.014                       |    |
|                      |      | MAXIMUM              | 0.002                    | 0.070            | 0.020            | 0.300                       | 1.480            | 0.014      | 8.32             | 0.016            | 0.242                       |    |
|                      |      | ARITH MEAN           | 0.002                    | 0.033            | 0.014            | 0.217                       | 0.548            | 0.014      | 8.04             | 0.006            | 0.052                       |    |
|                      |      | GEOM MEAN            |                          |                  |                  |                             | 0.487            |            | 8.04             |                  | 0.028                       |    |
|                      |      | MINIMUM              | 0.002                    | 0.015            | 0.010            | 0.100                       | 0.310            | 0.014      | 7.86             | 0.001            | 0.009                       |    |
|                      |      | STD DEV (GEOM *)     |                          |                  |                  |                             | 0.338            |            | 0.17             |                  | 0.073                       |    |
|                      |      | # SAMP IN STATISTICS | 1                        | 8                | 5                | 6                           | 11               | 1          | 11               | 8                | 11                          |    |
|                      |      | % SAMP (EXCLUDED)    | 90                       | 27               | 54               | 45                          |                  | 90         |                  | 27               |                             |    |

( C O N T D )

B.O.W./ SITE: ALBEMARBLE BROOK  
 SAMPLE POINT: AT HIGHWAY NO 6 NEAR MAR MOE SW A3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA102

STATION ID: 08-0135-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 50 03.49 LONG: 081 13 07.91

U T M: 17 0482700.0 4964350.0 4

REGION: 01

DISTANCE: 25.105

| *=INTERIM TEST-NAME: |      | RSP     | TURB     | ZNUT     |
|----------------------|------|---------|----------|----------|
|                      |      |         |          | ZINC     |
| SAMPLE               |      | RESIDUE |          | UNF.TOT. |
| DATE                 | HOUR | PARTIC. | TURB'ITY | MG/L     |
| YYMMDD               | LMT  | MG/L    | FTU      | AS ZN    |
| 870127               | 0951 | 40612   | 5.0<     | 1.90     |
| 870224               | 1445 | 40621   | 1.6      | 1.48     |
| 870324               | 1020 | 40636   | 4.8      | 2.90     |
| 870427               | 1442 | 40645   | 5.0<     | 3.10     |
| 870527               | 1026 | 40660   | 5.0<     | 2.00     |
| 870623               | 0935 | 40669   | 5.1      | 3.40     |
| 870727               | 1847 | 40684   | 5.4      | 4.90     |
| 870825               | 1409 | 40693   | 1.5      | 2.40     |
| 870929               | 1017 | 40708   | 2.2      | 5.60     |
| 871027               | 1334 | 40717   | 16.2     | 5.20     |
| 871124               | 1335 | 40732   | 1.7      | 0.58     |
| MAXIMUM              |      | 16.2    | 5.60     | 0.006    |
| ARITH MEAN           |      | 4.8     | 3.04     | 0.003<A  |
| GEOM MEAN            |      |         | 2.58     |          |
| MINIMUM              |      | 1.5     | 0.58     | 0.001    |
| STD DEV (GEOM *)     |      |         | 1.62     |          |
| # SAMP IN STATISTICS |      | 8       | 11       | 8        |
| % SAMP (EXCLUDED)    |      | 27      |          | 20       |

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: 2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY  
 STATION TYPE: RIVER

STATION ID: 08-0143-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 00 09.78 LONG: 081 21 56.65 U T M: 17 0471175.0 4983100.0 4 REGION: 01 DISTANCE: 1.127

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | UNF.REAC |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | AS N     |
| 870127               | 1041 | 40610  | 0101     |          | 4.000    | 414.0    | 76       | 76       | 6      | 1.0    | 0.070    |
| 870224               | 1358 | 40619  | 0101     |          | 5.000    | 448.0    |          |          | 6      | 1.0    | 0.140    |
| 870324               | 1049 | 40634  | 0101     |          | 4.000    | 318.0    | 20       | 76       | 6      | 9.5    | 0.020    |
| 870427               | 1411 | 40643  | 0101     |          | 3.000    | 443.0    | 304      | 144      | 6      |        | 0.075    |
| 870527               | 1058 | 40658  | 0101     |          | 4.500    | 394.0    | 1170     | 150      | 6      | 14.5   | 0.035    |
| 870623               | 1003 | 40667  | 0101     |          | 2.500    | 364.0    | 170      | 10AID    | 6      | 19.5   | 0.045    |
| 870727               | 1917 | 40682  | 0101     |          | 5.500    | 404.0    | 130      | 88       | 6      | 25.0   | 0.045    |
| 870825               | 1440 | 40691  | 0101     |          | 5.500    | 418.0    | 1100     | 70AID    | 6      | 20.0   | 0.020    |
| 870929               | 1044 | 40706  | 0101     | 7.320    |          | 448.0    | 440      | 90AID    | 6      | 16.5   | 0.050    |
| 871027               | 1412 | 40715  | 0101     | 3.690    |          | 367.0    | 330      | 290      | 6      | 7.0    | 0.005<   |
| 871124               | 1418 | 40730  | 0101     | 6.170    |          | 385.0    |          |          | 6      | 3.0    | 0.045    |
| MAXIMUM              |      | 0.30   |          | 7.320    | 5.500    | 448.0    | 1170     | 290      |        | 25.0   | 0.140    |
| ARITH MEAN           |      | 0.30   |          | 5.727    | 4.250    | 400.3    | 416      | 110      |        | 11.7   | 0.054    |
| GEOM MEAN            |      |        |          | 5.503    | 4.112    | 398.3    | 231      | 84       |        | 7.4    |          |
| MINIMUM              |      | 0.30   |          | 3.690    | 2.500    | 318.0    | 20       | 10       |        | 1.0    | 0.020    |
| STD DEV (GEOM *)     |      |        |          | 1.855    | 1.102    | 40.5     | 4*       | 3*       |        | 8.6    |          |
| # SAMP IN STATISTICS |      | 11     |          | 3        | 8        | 11       | 9        | 9        |        | 10     | 10       |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |        |        | 9        |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | MF       | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | CNT      | MG/L    |
| 870127               | 1041 | 0.010<   | 0.100<   | 0.550    | 7.41 | 0.007    | 0.017    | 4<       | 5.0<    |
| 870224               | 1358 | 0.010    | 0.100<   | 0.690    | 7.33 | 0.003    | 0.027    |          | 4.7     |
| 870324               | 1049 | 0.010<   | 0.300    | 0.560    | 7.82 | 0.017    | 0.041    | 4<       | 10.6    |
| 870427               | 1411 | 0.040    | 0.100<   | 0.760    | 7.83 | 0.008    | 0.056    | 4<       | 16.8    |
| 870527               | 1058 | 0.010<   | 0.300    | 0.760    | 7.64 | 0.011    | 0.056    | 4<       | 28.0    |
| 870623               | 1003 | 0.020    | 0.100<   | 1.040    | 7.95 | 0.018    | 0.090    | 4<       | 28.6    |
| 870727               | 1917 | 0.010    | 0.100<   | 1.200    | 8.05 | 0.019    | 0.046    | 4<       | 20.8    |
| 870825               | 1440 | 0.010    | 0.200    | 1.200    | 7.92 | 0.019    | 0.080    | 4        | 16.4    |
| 870929               | 1044 | 0.010    | 0.100    | 1.120    | 7.71 | 0.013    | 0.088    | 4<       | 27.4    |
| 871027               | 1412 | 0.010<   | 0.400    | 0.800    | 7.92 | 0.024    | 0.038    | 4<       | 3.0     |
| 871124               | 1418 | 0.010<   | 0.100    | 0.640    | 7.91 | 0.001<   | 0.067    |          | 5.0<    |

( C O N T D )

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: 2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY  
 STATION TYPE: RIVER

STATION ID: 08-0143-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 00 09.78 LONG: 081 21 56.65

U T M: 17 0471175.0 4983100.0 4

REGION: 01

DISTANCE: 1.127

| *=INTERIM TEST-NAME: |                  | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------------------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |                  | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |         |
|                      |                  | UNF.REAC | UNF.REAC | TOTAL    |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |
| SAMPLE               |                  | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | MF       | PARTIC. |
| DATE                 | HOUR             | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | CNT      | MG/L    |
| YYMMDD               | LMT              |          |          |          |      |          |          | /100ML   |         |
|                      | MAXIMUM          | 0.040    | 0.400    | 1.200    | 8.05 | 0.024    | 0.090    | 4        | 28.6    |
|                      | ARITH MEAN       | 0.017    | 0.233    | 0.847    | 7.77 | 0.014    | 0.055    | 4        | 17.4    |
|                      | GEOM MEAN        |          |          | 0.815    | 7.77 |          | 0.050    |          |         |
|                      | MINIMUM          | 0.010    | 0.100    | 0.550    | 7.33 | 0.003    | 0.017    | 4        | 3.0     |
|                      | STD DEV (GEOM *) |          |          | 0.248    | 0.23 |          | 0.024    |          |         |
| # SAMP               | IN STATISTICS    | 6        | 6        | 11       | 11   | 10       | 11       | 1        | 9       |
| % SAMP               | (EXCLUDED)       | 45       | 45       |          |      | 9        |          | 88       | 18      |

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: AT HIGHWAY NO.6  
 STATION TYPE: RIVER FLOW GAUGE FED.02FA002

STATION ID: 08-0143-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 02 13.25 LONG: 081 20 10.03 U T M: 17 0473525.0 4986900.0 4 REGION: 01 DIST: 002 DISTANCE: 6.276

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC | FWTEMP |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | STREPCUS | STREAM |        |        |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | MF       | FLOW   |        | WATER  |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | CNT      | CNT      | M3     | STREAM | TEMP   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | /100ML   | /100ML   | /S     | COND.  | DEG.C  |
| 870127               | 1022 | 40611  | 0101     |          | 4.000    | 399.0    | 100      | 92       | 0.392  | 4      | 1.0    |
| 870224               | 1412 | 40620  | 0101     |          | 4.000    | 432.0    |          |          | 0.285  | 4      | 1.0    |
| 870324               | 1103 | 40635  | 0101     |          | 4.500    | 312.0    | 68       | 108      | 2.440  | 6      | 9.5    |
| 870427               | 1429 | 40644  | 0101     |          | 5.000    | 324.0    | 600>     | 216      | 0.341  | 6      |        |
| 870527               | 1114 | 40659  | 0101     |          | 4.000    | 364.0    | 2000     | 460      | 0.247  | 6      | 16.5   |
| 870623               | 1026 | 40668  | 0101     |          | 2.500    | 351.0    | 210      | 150      | 0.122  | 6      | 20.0   |
| 870727               | 1931 | 40683  | 0101     |          | 2.500    | 367.0    | 128      | 144      | 0.030  | 6      | 25.0   |
| 870825               | 1454 | 40692  | 0101     |          | 3.500    | 391.0    | 1400     | 330      | 0.077  | 6      | 17.0   |
| 870929               | 1100 | 40707  | 0101     | 8.180    |          | 425.0    | 1500>    | 4300     | 0.075  | 6      | 16.5   |
| 871027               | 1428 | 40716  | 0101     | 4.580    |          | 343.0    | 6600     | 3400     | 4.910  | 6      | 7.0    |
| 871124               | 1433 | 40731  | 0101     | 7.090    |          | 356.0    |          |          | 1.360  | 6      | 3.0    |
| MAXIMUM              |      | 0.30   |          | 8.180    | 5.000    | 432.0    | 6600     | 4300     | 4.910  |        | 25.0   |
| ARITH MEAN           |      | 0.30   |          | 6.617    | 3.750    | 369.5    | 1501     | 1022     | 0.934  |        | 11.6   |
| GEOM MEAN            |      |        |          | 6.428    | 3.650    | 367.6    |          | 361      | 0.317  |        | 7.4    |
| MINIMUM              |      | 0.30   |          | 4.580    | 2.500    | 312.0    | 68       | 92       | 0.030  |        | 1.0    |
| STD DEV (GEOM *)     |      |        |          | 1.846    | 0.886    | 38.7     |          | 4*       | 1.508  |        | 8.5    |
| # SAMP IN STATISTICS |      | 11     |          | 3        | 8        | 11       | 7        | 9        | 11     |        | 10     |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 22       |          |        |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |         |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L    |
| 870127               | 1022 | 0.075    | 0.010<   | 0.100<   | 0.560    | 7.33 | 0.005    | 0.017    | 4<       | 5.0<    |
| 870224               | 1412 | 0.130    | 0.010    | 0.100<   | 0.740    | 7.28 | 0.001<   | 0.026    |          | 5.9     |
| 870324               | 1103 | 0.030    | 0.010<   | 0.300    | 0.650    | 7.79 | 0.019    | 0.057    | 4<       | 18.8    |
| 870427               | 1429 | 0.040    | 0.030    | 0.100    | 0.640    | 7.89 | 0.010    | 0.056    | 4<       | 27.0    |
| 870527               | 1114 | 0.025    | 0.010<   | 0.300    | 0.740    | 7.86 | 0.011    | 0.041    | 4<       | 10.1    |
| 870623               | 1026 | 0.010    | 0.020    | 0.100<   | 0.840    | 8.01 | 0.008    | 0.050    | 4<       | 14.9    |
| 870727               | 1931 | 0.010    | 0.010<   | 0.100<   | 1.020    | 8.52 | 0.005    | 0.054    | 4<       | 10.2    |
| 870825               | 1454 | 0.030    | 0.020    | 0.200    | 1.100    | 7.98 | 0.022    | 0.040    | 4<       | 12.8    |
| 870929               | 1100 | 0.120    | 0.040    | 0.200    | 1.440    | 7.83 | 0.051    | 0.214    | 36C      | 56.0    |
| 871027               | 1428 | 0.008    | 0.010<   | 0.900    | 1.060    | 7.90 | 0.051    | 0.120    | 16       | 31.7    |
| 871124               | 1433 | 0.001<   | 0.010<   | 0.100<   | 0.600    | 7.87 | 0.005    | 0.036    |          | 5.0<    |

( C O N T D )

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: AT HIGHWAY NO.6  
 STATION TYPE: RIVER FLOW GAUGE FED.02FA002

STATION ID: 08-0143-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 02 13.25 LONG: 081 20 10.03 U T M: 17 0473525.0 4986900.0 4 REGION: 01 DIST: 002 DISTANCE: 6.276

| *=INTERIM            |     | TEST-NAME: | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC | PH   | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT | RSP<br>RESIDUE<br>PARTIC.<br>MG/L |
|----------------------|-----|------------|--------------------------|-----------------------------|-----------------------------|---|------|---------------------------|------------------------------|--|-----------------------------------|
| DATE                 | HR  | SAMPLE     | MG/L                     | MG/L                        | MG/L                        | MG/L                                    |      | MG/L                      | MG/L                         |  |                                   |
| YYMMDD               | LMT | NUMBER     | AS N                     | AS N                        | AS N                        | AS N                                    | PH   | AS P                      | AS P                         | /100ML                                   |                                   |
| MAXIMUM              |     |            | 0.130                    | 0.040                       | 0.900                       | 1.440                                   | 8.52 | 0.051                     | 0.214                        | 36                                       | 56.0                              |
| ARITH MEAN           |     |            | 0.048                    | 0.024                       | 0.333                       | 0.854                                   | 7.84 | 0.019                     | 0.065                        | 26                                       | 20.8                              |
| GEOM MEAN            |     |            |                          |                             |                             | 0.818                                   | 7.84 |                           | 0.051                        |  |                                   |
| MINIMUM              |     |            | 0.008                    | 0.010                       | 0.100                       | 0.560                                   | 7.28 | 0.005                     | 0.017                        | 16                                       | 5.9                               |
| STD DEV (GEOM *)     |     |            |                          |                             |                             | 0.272                                   | 0.33 |                           | 0.056                        |  |                                   |
| # SAMP IN STATISTICS |     |            | 10                       | 5                           | 6                           | 11                                      | 11   | 10                        | 11                           | 2  | 9                                 |
| % SAMP (EXCLUDED)    |     |            | 9                        | 54                          | 45                          |   |      | 9                         |                              | 77                                       | 18                                |

## 263

STORET CODE: 02  
003  
2740

**DISTANCE: 3.862**

|                      |      |       |       |        |         |      |        |       |       |
|----------------------|------|-------|-------|--------|---------|------|--------|-------|-------|
| MAXIMUM              | 0.30 | 238.0 | 13.80 | 91.500 | 248.000 | 47.5 | 1350.0 | 0.010 | 0.014 |
| ARITH MEAN           | 0.30 | 167.1 | 6.24  | 61.047 | 108.214 | 34   | 755.2  | 0.005 | 0.007 |
| GEOM MEAN            |      | 160.2 | 5.49  | 57.243 | 96.681  | 33   | 717.6  |       | 0.006 |
| MINIMUM              | 0.30 | 93.7  | 2.26  | 33.120 | 58.500  | 17.5 | 427.0  | 0.002 | 0.003 |
| STD DEV (GEOM *)     |      | 49.3  | 3.28  | 24.311 | 64.970  | 9    | 265.7  |       | 0.004 |
| # SAMP IN STATISTICS | 11   | 10    | 11    | 4      | 7       | 9    | 11     | 6     | 8     |
| % SAMP (EXCLUDED)    |      |       |       |        |         |      |        | 25    |       |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

264

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT WINDSOR SUBURBAN ROAD 40  
 STATION TYPE: RIVER

STATION ID: 10-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TURKEY CREEK

STORET CODE: 02  
 003  
 2740

|                      |      | LAT: 42 14 53.82            | LONG: 083 04 04.46        | U T M: 17 0329400.0 4679200.0 4 |                              |                            |                               | REGION: 01                  | DISTANCE: 3.862           |                              |                              |
|----------------------|------|-----------------------------|---------------------------|---------------------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------|------------------------------|------------------------------|
| *=INTERIM TEST-NAME: |      | DO                          | FCMF<br>FECAL<br>COLIFORM | FSMF<br>FECAL<br>STREPCUS       | FWFLOW<br>STREAM<br>FLOW     | FWSTRC<br>STREAM<br>COND.  | FWTEMP<br>WATER<br>TEMP       | NIUT<br>NICKEL<br>UNF. TOT. | NNHTUR<br>NH3-N<br>TOTAL  | NNO2UR<br>NO2-N<br>UNF. REAC | NNO3UR<br>NO3-N<br>UNF. REAC |
| SAMPLE<br>DATE       | HR   | SAMPLE<br>OXYGEN<br>MG/L    | CNT<br>/100ML             | CNT<br>/100ML                   | M3<br>/S                     |                            | DEG.C                         | AS NI                       | AS N                      | AS N                         | AS N                         |
| YYMMDD               | LMT  | NUMBER                      | AS O                      |                                 |                              |                            |                               |                             |                           |                              |                              |
|                      |      | MAXIMUM                     | 11.0                      | 210000                          | 18000                        | 1.300                      | 24.0                          | 0.017                       | 3.810                     | 1.930                        | 8.900                        |
|                      |      | ARITH MEAN                  | 6.1                       | 93500                           | 4741                         | 0.411                      | 12.2                          | 0.012                       | 1.512                     | 0.315                        | 1.536                        |
|                      |      | GEOM MEAN                   | 5.5                       |                                 |                              | 0.294                      | 9.2                           |                             |                           |                              | 0.847                        |
|                      |      | MINIMUM                     | 2.5                       | 22000                           | 124                          | 0.104                      | 2.0                           | 0.004                       | 0.115                     | 0.050                        | 0.200                        |
|                      |      | STD DEV (GEOM *)            | 3.0                       |                                 |                              | 0.396                      | 7.8                           |                             |                           |                              | 2.481                        |
|                      |      | # SAMP IN STATISTICS        | 10                        | 6                               | 8                            | 11                         | 11                            | 7                           | 10                        | 10                           | 11                           |
|                      |      | % SAMP (EXCLUDED)           |                           | 33                              | 20                           |                            |                               | 12                          | 9                         | 9                            |                              |
| *=INTERIM TEST-NAME: |      | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD<br>UNF. TOT. | PH                              | PHNOL<br>PHENOLS<br>UNF-REAC | PP04UR<br>P04<br>UNF. REAC | PPUT<br>PHOSPHOR<br>UNF. TOT. | PSAMF<br>PSEUDOMN<br>AERUG. | RSP<br>RESIDUE<br>PARTIC. | TURB<br>TURB'ITY             | ZNUT<br>ZINC<br>UNF. TOT.    |
| SAMPLE<br>DATE       | HR   | UNF. REAC<br>MG/L           | UNF. TOT.<br>MG/L         | PH                              | UG/L<br>PHENOL               | MG/L<br>AS P               | MG/L<br>AS P                  | CNT<br>/100ML               | MG/L                      | FTU                          | MG/L<br>AS ZN                |
| YYMMDD               | LMT  | AS N                        | AS PB                     |                                 |                              |                            |                               |                             |                           |                              |                              |
| 870113               | 1300 | 40807                       | 2.650                     | 0.030<                          | 7.72                         | 2.000                      | 0.450                         | 0.555                       |                           | 6.2                          | 7.30                         |
| 870210               | 1305 | 40819                       | 2.750                     |                                 | 7.69                         | 1.000                      | 0.452                         | 0.565                       | 44                        | 4.6                          | 8.40                         |
| 870414               | 1309 | 40843                       | 0.820                     | 0.003<                          | 7.65                         | 2.500                      | 0.530                         | 0.630                       | 172                       | 6.2                          | 8.60                         |
| 870512               | 1251 | 40855                       | 3.500                     | 0.031                           | 7.25                         |                            | 0.348                         | 0.485                       | 1000C                     | 28.4                         | 54.00                        |
| 870609               | 1225 | 40867                       | 4.100                     | 0.003                           | 7.61                         | 3.000                      | 0.747                         | 0.810                       | 564                       | 5.9                          | 7.40                         |
| 870714               | 1248 | 40879                       | 1.450                     | 0.018                           | 7.67                         | 4.000                      | 0.212                         | 0.415                       | 1500>                     | 48.7                         | 61.00                        |
| 870813               | 1257 | 40891                       | 3.600                     | 0.004                           | 7.58                         | 1.000<                     | 1.050                         | 1.050                       | 160                       | 7.8                          | 11.10                        |
| 870916               | 0820 | 40903                       | 2.540                     | 0.014                           | 7.52                         | 1.000<                     | 0.046                         | 0.510                       | 220C                      | 34.7                         | 38.00                        |
| 871013               | 1300 | 40943                       | 5.600                     | 0.004                           | 7.39                         | 2.500                      | 1.130                         | 1.380                       | 228                       | 6.2                          | 6.30                         |
| 871110               | 1340 | 40954                       | 0.740                     |                                 | 7.92                         |                            | 0.015                         | 0.170                       | 10<                       | 26.1                         | 33.00                        |
| 871216               | 0930 | 40967                       | 1.550                     |                                 | 7.44                         | 1.500                      | 0.102                         | 0.335                       | 210C                      | 73.6                         | 132.00                       |
|                      |      | MAXIMUM                     | 5.600                     | 0.031                           | 7.92                         | 4.000                      | 1.130                         | 1.380                       | 1000                      | 73.6                         | 132.00                       |
|                      |      | ARITH MEAN                  | 2.664                     | 0.012                           | 7.59                         | 2.357                      | 0.462                         | 0.628                       | 325                       | 22.6                         | 33.37                        |
|                      |      | GEOM MEAN                   | 2.245                     |                                 | 7.58                         |                            | 0.267                         | 0.549                       |                           | 14.2                         | 19.43                        |
|                      |      | MINIMUM                     | 0.740                     | 0.003                           | 7.25                         | 1.000                      | 0.015                         | 0.170                       | 44                        | 4.6                          | 6.30                         |
|                      |      | STD DEV (GEOM *)            | 1.487                     |                                 | 0.18                         |                            | 0.382                         | 0.341                       |                           | 22.6                         | 38.42                        |
|                      |      | # SAMP IN STATISTICS        | 11                        | 6                               | 11                           | 7                          | 11                            | 11                          | 8                         | 11                           | 11                           |
|                      |      | % SAMP (EXCLUDED)           |                           | 25                              |                              | 22                         |                               |                             | 20                        |                              | 8                            |



B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: HWY.18 2 MILES SOUTH OF RIVER CANARD  
 STATION TYPE: RIVER

STATION ID: 10-0002-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 10 06.56 LONG: 083 05 52.32

U T M: 17 0326710.0 4670400.0 4

REGION: 01

DISTANCE: 0.805

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWFLOW | FWSTRC | FWTEMP |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|--------|--------|--------|
| SAMPLE DATE          | HOUR | SAMPLE               | PROJECT  | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    | STREAM |        | WATER  |
| YYMMDD               | LMT  | NUMBER               | SUB-PROJ | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS | FLOW   | COND.  | TEMP   |
|                      |      |                      | CODE     | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | M3     |        | DEG.C  |
|                      |      |                      |          | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | /S     |        |        |
|                      |      |                      |          |          |          |          | /100ML   | /100ML   |        |        |        |
| 870113               | 1315 | 40808                | 0101     |          | 24.500   | 353.0    |          |          | 1.310  | 6 8    | 1.0    |
| 870210               | 1326 | 40820                | 0101     |          | 49.500   | 690.0    | 140      | 10<      | 1.217  | 6 8    | 1.0    |
| 870310               | 1315 | 40832                | 0101     | 42.500   |          | 550.0    | 60AID    | 20AID    | 2.454  | 6 8    | 1.0    |
| 870414               | 1333 | 40844                | 0101     |          | 27.500   | 590.0    | 40AID    | 60AID    | 4.410  | 6 8    | 7.5    |
| 870512               | 1311 | 40856                | 0101     |          | 28.000   | 396.0    | 4        | 10AID    | 0.119  | 8 6    | 16.5   |
| 870609               | 1245 | 40868                | 0101     | 22.000   |          | 425.0    | 500AID   | 100      | 0.817  | 5 8    | 21.0   |
| 870714               | 1305 | 40880                | 0101     |          | 31.000   | 430.0    | 100      | 30AID    | 0.333  | 6 8    | 25.0   |
| 870813               | 1323 | 40892                | 0101     |          | 24.500   | 347.0    | 100      | 10AID    | 0.106  | 6 8    | 26.0   |
| 870916               | 0843 | 40932                | 0101     | 15.000   |          | 321.0    | 210      | 320      | 9.589  | 6 8    | 20.0   |
| 871013               | 1330 | 40944                | 0101     | 19.680   |          | 337.0    | 4        | 20AID    | 0.092  | 6 8    | 11.0   |
| 871110               | 1354 | 40955                | 0101     | 56.440   |          | 760.0    | 10AID    | 10AID    | 1.329  | 6 8    | 6.0    |
| 871216               | 0930 | 40966                | 0101     |          |          |          |          |          | 44.720 | 6 8    | 2.0    |
|                      |      | MAXIMUM              | 0.30     |          | 56.440   | 760.0    | 500      | 320      | 44.720 |        | 26.0   |
|                      |      | ARITH MEAN           | 0.30     |          | 31.124   | 472.6    | 117      | 64       | 5.541  |        | 11.5   |
|                      |      | GEOM MEAN            |          |          | 27.448   | 452.6    | 47       |          | 1.099  |        | 6.4    |
|                      |      | MINIMUM              | 0.30     |          | 15.000   | 321.0    | 4        | 10       | 0.092  |        | 1.0    |
|                      |      | STD DEV (GEOM *)     |          |          | 17.639   | 152.0    | 5*       |          | 12.630 |        | 9.8    |
|                      |      | # SAMP IN STATISTICS | 12       |          | 5        | 11       | 10       | 9        | 12     |        | 12     |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          | 10       |        |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|------|--------|----------|----------|----------|------|----------|----------|---------|----------|
| SAMPLE DATE          | HOUR | NH3-N  | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR |         |          |
| YYMMDD               | LMT  | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
|                      |      | MG/L   | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | FTU      |
|                      |      | AS N   | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    |          |
| 870113               | 1315 | 40808  | 0.055    | 0.010    | 0.900    | 8.11 | 0.020    | 0.048    | 8.1     | 19.80    |
| 870210               | 1326 | 40820  | 0.230    | 0.030    | 2.700    | 7.66 | 0.043    | 0.088    | 4.6     | 16.20    |
| 870310               | 1315 | 40832  | 0.160    | 0.050    | 3.400    | 8.17 | 0.036    | 0.180    | 26.8    | 113.00   |
| 870414               | 1333 | 40844  | 0.040    | 0.130    | 5.000    | 7.91 | 0.045    | 0.320    | 103.8   | 171.00   |
| 870512               | 1311 | 40856  | 0.015    | 0.040    | 0.200    | 8.33 | 0.033    | 0.155    | 62.2    | 76.00    |
| 870609               | 1245 | 40868  | 0.475    | 0.290    | 5.700    | 7.92 | 0.136    | 0.210    | 94.3    | 141.00   |
| 870714               | 1305 | 40880  | 0.115    | 0.040    | 0.200    | 8.21 | 0.021    | 0.210    | 64.3    | 74.00    |
| 870813               | 1323 | 40892  | 0.155    | 0.040    | 0.100<   | 8.22 | 0.036    | 0.115    | 32.3    | 51.00    |
| 870916               | 0843 | 40932  | 0.005    | 0.060    | 9.400    | 7.62 | 0.171    | 0.315    | 85.0    | 244.00   |
| 871013               | 1330 | 40944  | 0.025    | 0.010<   | 0.100    |      | 0.007    | 0.054    | 15.9    | 25.00    |
| 871110               | 1354 | 40955  | 0.005<   | 0.010<   | 0.300    | 7.75 | 0.083    | 0.430    | 25.6    | 40.00    |

( C O N T D )

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: HWY.18 2 MILES SOUTH OF RIVER CANARD  
 STATION TYPE: RIVER

STATION ID: 10-0002-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 10 06.56 LONG: 083 05 52.32 U T M: 17 0326710.0 4670400.0 4 REGION: 01 DISTANCE: 0.805

| *=INTERIM TEST-NAME: |     | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|-----|----------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |     | NH3-N    |          |          | K'DAHL N |      |          |          |         |          |
|                      |     | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR |         |          |
| SAMPLE               |     | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE |          |
| DATE                 | HR  | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | TURB'ITY |
| YYMMDD               | LMT | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    | FTU      |
| MAXIMUM              |     | 0.475    | 0.290    | 9.400    | 2.200    | 8.33 | 0.171    | 0.430    | 103.8   | 244.00   |
| ARITH MEAN           |     | 0.127    | 0.077    | 2.790    | 1.253    | 7.99 | 0.057    | 0.193    | 47.5    | 88.27    |
| GEOM MEAN            |     |          |          |          | 1.130    | 7.99 | 0.040    | 0.157    | 32.6    | 62.92    |
| MINIMUM              |     | 0.005    | 0.010    | 0.100    | 0.440    | 7.62 | 0.007    | 0.048    | 4.6     | 16.20    |
| STD DEV (GEOM *)     |     |          |          |          | 0.568    | 0.25 | 0.052    | 0.121    | 35.8    | 72.42    |
| # SAMP IN STATISTICS |     | 10       | 9        | 10       | 11       | 10   | 11       | 11       | 11      | 11       |
| % SAMP (EXCLUDED)    |     | 9        | 18       | 9        |          |      |          |          |         |          |

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: 2 MILES SOUTH OF LUKERVILLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 10-0002-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 09 32.79 LONG: 083 01 06.23 U T M: 17 0333250.0 4669200.0 4 REGION: 01 DISTANCE: 12.070

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
| SAMPLE               |      | SAMPLE | PROJECT  | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | LMT  | M      | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| 870113               | 1340 | 40809  | 0101     | 158.0    | 1.14     |          | 34.500   | 645.0    | 0.004    | 14.0     |          |
| 870210               | 1355 | 40821  | 0101     | 202.0    | 3.20     |          | 74.500   | 840.0    |          | 13.0     | 800      |
| 870310               | 1335 | 40833  | 0101     | 138.0    | 1.50     | 24.000   |          | 545.0    | 0.002    | 7.0      | 10AID    |
| 870414               | 1348 | 40845  | 0101     | 127.0    | 4.60     |          | 26.000   | 540.0    | 0.009    | 10.0     | 510      |
| 870512               | 1328 | 40857  | 0101     | 192.0    | 5.60     |          | 172.000  | 1960.0   | 0.006    | 13.0     | 100<     |
| 870609               | 1305 | 40869  | 0101     | 156.0    | 2.70     |          | 83.000   | 1150.0   | 0.008    | 8.5      | 1020     |
| 870714               | 1319 | 40881  | 0101     | 152.0    | 5.20     |          | 73.500   | 775.0    | 0.008    | 10.0     | 2400     |
| 870813               | 1338 | 40893  | 0101     | 149.0    | 3.58     |          | 225.000  | 1820.0   | 0.010    | 10.5     | 200AID   |
| 870916               | 0859 | 40933  | 0101     |          | 2.56     |          | 14.000   | 347.0    | 0.010    | 7.5      | 390      |
| 871013               | 1345 | 40945  | 0101     |          | 2.43     |          | 119.600  | 1530.0   | 0.003    | 8.5      | 50AID    |
| 871216               | 0915 | 40965  | 0101     | 52.6     | 3.04     |          | 15.130   | 220.0    |          | 7.5      | 1600     |
| MAXIMUM              |      | 0.30   |          | 202.0    | 5.60     | 24.000   | 225.000  | 1960.0   | 0.010    | 14.0     | 2400     |
| ARITH MEAN           |      | 0.30   |          | 147.4    | 3.23     | 24.000   | 83.723   | 942.9    | 0.007    | 10.0     | 776      |
| GEOM MEAN            |      |        |          | 139.5    | 2.92     |          | 57.567   | 773.4    | 0.006    | 9.7      |          |
| MINIMUM              |      | 0.30   |          | 52.6     | 1.14     | 24.000   | 14.000   | 220.0    | 0.002    | 7.0      | 10       |
| STD DEV (GEOM *)     |      |        |          | 42.8     | 1.42     |          | 70.357   | 593.1    | 0.003    | 2.5      |          |
| # SAMP IN STATISTICS |      | 11     |          | 9        | 11       | 1        | 10       | 11       | 9        | 11       | 9        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          | 10       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|----------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                      |      | FECAL    |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                      |      | STREPCUS | STREAM |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
| SAMPLE               |      | MF       | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
| DATE                 | HOUR | CNT      | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
| YYMMDD               | LMT  | /100ML   | /S     | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
| 870113               | 1340 | 40809    | 0.480  | 6 8    | 1.0    | 0.060    | 0.020    | 2.200    | 0.950    | 0.006    | 7.95 |
| 870210               | 1355 | 40821    | 280    | 4      | 1.0    | 0.185    | 0.040    | 1.900    | 1.600    |          | 7.58 |
| 870310               | 1335 | 40833    | 10AID  | 6 8    | 2.0    | 0.020    | 0.020    | 2.200    | 0.850    | 0.010    | 7.99 |
| 870414               | 1348 | 40845    | 190    | 6 8    | 8.0    | 0.060    | 0.070    | 2.600    | 2.200    | 0.003<   | 7.78 |
| 870512               | 1328 | 40857    | 100AID | 8 6    | 19.0   | 0.030    | 0.080    | 0.200    | 2.350    | 0.004    | 8.04 |
| 870609               | 1305 | 40869    | 590    | 6 8    | 19.5   | 0.235    | 0.370    | 7.500    | 1.620    | 0.003<   | 7.85 |
| 870714               | 1319 | 40881    | 1200   | 6 8    | 23.0   | 0.015    | 0.030    | 0.200    | 1.800    | 0.003<   | 8.21 |
| 870813               | 1338 | 40893    | 200AID | 6 8    | 27.0   | 0.310    | 0.310    | 0.200    | 1.400    | 0.003<   | 7.96 |
| 870916               | 0859 | 40933    | 730    | 6 8    | 18.5   | 0.005<   | 0.040    | 2.200    | 1.950    | 0.003<   | 7.55 |
| 871013               | 1345 | 40945    | 20AID  | 6 8    | 11.0   | 0.230    | 0.010<   | 0.100<   | 1.320    | 0.003<   |      |
| 871216               | 0915 | 40965    | 24000  | 3 6 8  | 3.0    | 0.012    | 0.030    | 1.500    | 8.500    |          | 7.67 |

( C O N T D )

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: 2 MILES SOUTH OF LUKERVILLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 10-0002-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 09 32.79 LONG: 083 01 06.23

U T M: 17 0333250.0 4669200.0 4

REGION: 01

DISTANCE: 12.070

| *=-INTERIM TEST-NAME: |     | FSMF                 | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH   |
|-----------------------|-----|----------------------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                       |     | FECAL                | STREAM |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                       |     | STREPCUS             | FLOW   |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
| SAMPLE                |     | MF                   | FLOW   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
| DATE                  | HR  | CNT                  | M3     | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH   |
| YYMMDD                | LMT | NUMBER               | /100ML | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |      |
|                       |     | MAXIMUM              | 24000  | 11.100 | 27.0   | 0.310    | 0.370    | 7.500    | 8.500    | 0.010    | 8.21 |
|                       |     | ARITH MEAN           | 2732   | 1.282  | 12.1   | 0.116    | 0.101    | 2.070    | 2.231    | 0.007    | 7.86 |
|                       |     | GEOM MEAN            | 277    | 0.299  | 7.1    |          |          |          | 1.788    |          | 7.86 |
|                       |     | MINIMUM              | 10     | 0.022  | 1.0    | 0.012    | 0.020    | 0.200    | 0.850    | 0.004    | 7.55 |
|                       |     | STD DEV (GEOM *)     | 9*     | 3.262  | 9.7    |          |          |          | 2.131    |          | 0.21 |
|                       |     | # SAMP IN STATISTICS | 10     | 11     | 11     | 10       | 10       | 10       | 11       | 3        | 10   |
|                       |     | % SAMP (EXCLUDED)    |        |        |        | 9        | 9        | 9        |          | 66       |      |

| *=-INTERIM TEST-NAME: |      | PP04UR               | PPUT     | PSAMF    | RSP     | TURB     | ZNUT   |
|-----------------------|------|----------------------|----------|----------|---------|----------|--------|
|                       |      | P04                  | PHOSPHOR | PSEUDOMN |         |          |        |
|                       |      | UNF.REAC             | UNF.TOT. | AERUG.   | RESIDUE | TURB'ITY | ZINC   |
| SAMPLE                |      | MG/L                 | MG/L     | MF       | PARTIC. | FTU      | MG/L   |
| DATE                  | HR   | AS P                 | AS P     | CNT      | MG/L    |          | AS ZN  |
| YYMMDD                | LMT  | NUMBER               |          | /100ML   |         |          |        |
| 870113                | 1340 | 40809                | 0.079    | 0.125    | 8.4     | 45.00    | 0.022  |
| 870210                | 1355 | 40821                | 0.059    | 0.200    | 4<      | 58.3     | 124.00 |
| 870310                | 1335 | 40833                | 0.044    | 0.100    | 4       | 88.2     | 50.00  |
| 870414                | 1348 | 40845                | 0.045    | 0.420    | 4<      | 131.2    | 260.00 |
| 870512                | 1328 | 40857                | 0.013    | 0.190    | 28      | 74.4     | 75.00  |
| 870609                | 1305 | 40869                | 0.080    | 0.180    | 4<      | 74.8     | 113.00 |
| 870714                | 1319 | 40881                | 0.026    | 0.610    | 84      | 162.7    | 185.00 |
| 870813                | 1338 | 40893                | 0.014    | 0.150    | 44      | 135.6    | 179.00 |
| 870916                | 0859 | 40933                | 0.036    | 0.275    | 20      | 38.7     | 131.00 |
| 871013                | 1345 | 40945                | 0.025    | 0.116    | 4<      | 26.0     | 46.00  |
| 871216                | 0915 | 40965                | 0.095    | 5.200    | 20C     | 641.1    |        |
|                       |      | MAXIMUM              | 0.095    | 5.200    | 84      | 641.1    | 260.00 |
|                       |      | ARITH MEAN           | 0.047    | 0.688    | 33      | 130.9    | 120.80 |
|                       |      | GEOM MEAN            | 0.039    | 0.270    |         | 75.4     | 102.06 |
|                       |      | MINIMUM              | 0.013    | 0.100    | 4       | 8.4      | 45.00  |
|                       |      | STD DEV (GEOM *)     | 0.028    | 1.504    |         | 175.9    | 71.11  |
|                       |      | # SAMP IN STATISTICS | 11       | 11       | 6       | 11       | 10     |
|                       |      | % SAMP (EXCLUDED)    |          |          | 40      |          | 9      |

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: AT MALDEN TWP.CONC.2-3  
 STATION TYPE: RIVER

STATION ID: 16-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG CREEK

STORET CODE: 02  
 003  
 2620

LAT: 42 05 15.76 LONG: 083 04 57.46 U T M: 17 0327750.0 4661400.0 4 REGION: 01 DISTANCE: 7.911

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     | FWSTRC | FWTEMP |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |      |        |        | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | FECAL    | FECAL    |        |        |
|                      |      |        |        | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | COLIFORM | STREPCUS |        |        |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | UNF.REAC | UMHO/CM  | MG/L     | MF       | MF       | STREAM | WATER  |
| YYMMDD               | HOUR | NUMBER | M      | SUB-PROJ | MG/L     | AT 25 C  | AS O     | CNT      | CNT      | COND.  | TEMP   |
| YYMMDD               | LMT  | NUMBER | M      | CODE     | AS CL    | AS CL-   | AS O     | /100ML   | /100ML   | COND.  | DEG.C  |
| 870113               | 1355 | 40810  | 0.30   | 0101     |          | 195.000  | 1330.0   | 16.0     |          | 6 8    | 2.0    |
| 870210               | 1420 | 40822  | 0.30   | 0101     |          | 110.000  | 1140.0   | 13.0     | 270      | 4      | 2.0    |
| 870310               | 1355 | 40834  | 0.30   | 0101     | 101.000  | 925.0    | 8.0      | 10<      | 60AID    | 4      | 2.0    |
| 870414               | 1358 | 40846  | 0.30   | 0101     |          | 25.000   | 1460.0   | 12.0     | 44       | 6 8    | 8.0    |
| 870512               | 1347 | 40858  | 0.30   | 0101     |          | 275.000  | 1460.0   | 10.0     | 120      | 8 6    | 19.0   |
| 870609               | 1320 | 40870  | 0.30   | 0101     |          | 180.000  | 1210.0   | 11.0     | 110      | 5 8    | 22.0   |
| 870714               | 1334 | 40882  | 0.30   | 0101     |          | 245.000  | 1270.0   | 11.0     | 300AID   | 6 8    | 25.0   |
| 870813               | 1408 | 40894  | 0.30   | 0101     |          | 320.000  | 1420.0   | 16.5     | 100<     | 6 8    | 27.0   |
| 870916               | 0914 | 40934  | 0.30   | 0101     | 80.500   | 860.0    | 7.5      | 1000     | 760      | 6 8    | 19.0   |
| 871013               | 1420 | 40946  | 0.30   | 0101     | 410.150  | 2090.0   | 12.0     | 80AID    | 20AID    | 6 8    | 14.0   |
| 871110               | 1427 | 40957  | 0.30   | 0101     | 44.790   | 665.0    | 15.0     | 100<     | 100<     | 6 8    | 5.0    |
| 871215               | 1445 | 40964  | 0.30   | 0101     | 34.220   | 365.0    | 10.5     | 2300     | 9500     | 6 8    | 3.0    |
| MAXIMUM              |      | 0.30   |        |          | 410.150  | 320.000  | 2090.0   | 16.5     | 2300     | 9500   | 27.0   |
| ARITH MEAN           |      | 0.30   |        |          | 134.132  | 192.857  | 1182.9   | 11.9     | 528      | 1510   | 12.3   |
| GEOM MEAN            |      |        |        |          | 87.439   | 154.286  | 1091.1   | 11.6     |          |        | 8.0    |
| MINIMUM              |      | 0.30   |        |          | 34.220   | 25.000   | 365.0    | 7.5      | 44       | 20     | 2.0    |
| STD DEV (GEOM *)     |      |        |        |          | 156.624  | 100.700  | 444.4    | 2.9      |          |        | 9.7    |
| # SAMP IN STATISTICS |      | 12     |        |          | 5        | 7        | 12       | 12       | 8        | 7      | 12     |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          | 27       | 36     |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSF      | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |          |         |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | P04      | PHOSPHOR | AERUG.   |          |         |
| SAMPLE               | DATE | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE  | RESIDUE |
| YYMMDD               | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | FILTERED | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L     | MG/L    |
| 870113               | 1355 | 0.070    | 0.020    | 2.500    | 0.580    | 7.94 | 0.015    | 0.035    |          | 944.7    | 5.3     |
| 870210               | 1420 | 0.112    | 0.030    | 3.400    | 0.900    | 7.52 | 0.018    | 0.050    | 4<       | 740.0    | 8.0     |
| 870310               | 1355 | 0.110    | 0.060    | 3.600    | 1.050    | 8.18 | 0.019    | 0.105    | 4<       | 779.1    | 76.9    |
| 870414               | 1358 | 0.070    | 0.200    | 4.200    | 1.350    | 7.95 | 0.019    | 0.155    | 4<       | 1018.6   | 61.4    |
| 870512               | 1347 | 0.040    | 0.030    | 0.100    | 1.950    | 7.78 | 0.066    | 0.210    | 40       | 982.7    | 51.3    |
| 870609               | 1320 | 0.405    | 0.280    | 5.300    | 3.350    | 8.15 | 0.018    | 0.275    | 4<       | 882.1    | 105.9   |
| 870714               | 1334 | 0.011    | 0.010    | 0.100    | 3.300    | 7.97 | 0.016    | 0.470    | 4<       | 990.9    | 137.1   |
| 870813               | 1408 | 0.025    | 0.030    | 0.100<   | 4.950    | 8.46 | 0.043    | 0.540    | 10<      | 1031.6   | 200.4   |
| 870916               | 0914 | 0.005<   | 0.040    | 4.300    | 2.250    | 7.68 | 0.053    | 0.265    | 56       | 586.1    | 93.9    |
| 871013               | 1420 | 0.200    | 0.010<   | 0.100<   | 2.020    |      | 0.015    | 0.182    | 4<       | 1401.0   | 51.0    |
| 871110               | 1427 | 0.440    | 0.010<   | 0.500    | 2.760    | 7.86 | 0.120    | 0.266    | 4<       | 433.6    | 32.4    |
| 871215               | 1445 | 0.065    | 0.080    | 2.500    | 11.000   | 7.58 | 0.107    | 3.400    | 20C      | 492.2    | 2471.8  |

( C O N T D )

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: AT MALDEN TWP.CONC.2-3  
 STATION TYPE: RIVER

STATION ID: 16-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG CREEK

STORET CODE: 02  
 003  
 2620

LAT: 42 05 15.76 LONG: 083 04 57.46 U T M: 17 0327750.0 4661400.0 4 REGION: 01 DISTANCE: 7.911

| *=INTERIM TEST-NAME: |      | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSF      | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|----------|---------|
|                      |      | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |          |         |
|                      |      | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | PO4      | PHOSPHOR | AERUG.   |          |         |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       | RESIDUE  | RESIDUE |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      | FILTERED | PARTIC. |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   | MG/L     | MG/L    |
| MAXIMUM              |      | 0.440    | 0.280    | 5.300    | 11.000   | 8.46 | 0.120    | 3.400    | 56       | 1401.0   | 2471.8  |
| ARITH MEAN           |      | 0.141    | 0.078    | 2.650    | 2.955    | 7.92 | 0.042    | 0.496    | 39       | 856.9    | 274.6   |
| GEOM MEAN            |      |          |          |          | 2.170    | 7.91 | 0.031    | 0.226    |          | 815.2    | 68.9    |
| MINIMUM              |      | 0.011    | 0.010    | 0.100    | 0.580    | 7.52 | 0.015    | 0.035    | 20       | 433.6    | 5.3     |
| STD DEV (GEOM *)     |      |          |          |          | 2.820    | 0.28 | 0.037    | 0.927    |          | 269.7    | 694.1   |
| # SAMP IN STATISTICS |      | 11       | 10       | 10       | 12       | 11   | 12       | 12       | 3        | 12       | 12      |
| % SAMP (EXCLUDED)    |      | 8        | 16       | 16       |          |      |          |          | 72       |          |         |

\*=INTERIM TEST-NAME: TURB

| SAMPLE |      |        | TURB'ITY |
|--------|------|--------|----------|
| DATE   | HOUR | SAMPLE | FTU      |
| YYMMDD | LMT  | NUMBER |          |
| 870113 | 1355 | 40810  | 9.30     |
| 870210 | 1420 | 40822  | 12.10    |
| 870310 | 1355 | 40834  | 90.00    |
| 870414 | 1358 | 40846  | 74.00    |
| 870512 | 1347 | 40858  | 47.00    |
| 870609 | 1320 | 40870  | 78.00    |
| 870714 | 1334 | 40882  | 110.00   |
| 870813 | 1408 | 40894  | 165.00   |
| 870916 | 0914 | 40934  | 133.00   |
| 871013 | 1420 | 40946  | 42.00    |
| 871110 | 1427 | 40957  | 44.00    |

MAXIMUM 165.00  
 ARITH MEAN 73.13  
 GEOM MEAN 54.36  
 MINIMUM 9.30  
 STD DEV (GEOM \*) 48.98  
 # SAMP IN STATISTICS 11  
 % SAMP (EXCLUDED)

## 271

STORET CODE: 02  
003  
2460

| *=INTERIM                | TEST-NAME:  | DOC<br>CARBON<br>DISOLVED<br>ORGANIC | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC | FWTEMP          | NIUT                   | NNHTUR<br>NH3-N<br>TOTAL            | NNO2UR<br>NO2-N<br>UNF.REAC | NNO3UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC |       |
|--------------------------|-------------|--------------------------------------|--|--|--------|-----------------|------------------------|-------------------------------------|-----------------------------|-----------------------------|---|-------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                     | MG/L<br>AS O                                     |  |        | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N                |       |
| 870113                   | 1425        | 40811                                |  |  |        | 6 8             | 1.0                    |                                     | 0.150                       | 0.020                       | 2.300                                   | 0.700 |
| 870210                   | 1457        | 40823                                |  | 340  | 420    | 4               | 1.0                    |                                     | 0.140                       | 0.030                       | 3.800                                   | 1.400 |
| 870310                   | 1430        | 40835                                |  | 60AID  | 30AID  | 6 8             | 2.0                    |                                     | 0.015                       | 0.030                       | 3.400                                   | 0.850 |
| 870414                   | 1433        | 40847                                |  | 430  | 210    | 6 8             | 12.0                   |                                     | 0.015                       | 0.100                       | 5.100                                   | 1.250 |
| 870512                   | 1411        | 40859                                | 10.0   | 40AID  | 130    | 0 8 6           | 19.0                   |                                     | 0.040                       | 0.170                       | 1.500                                   | 3.400 |
| 870609                   | 1350        | 40871                                |  | 240  | 240    | 6 8             |                        |                                     | 0.120                       | 0.260                       | 4.800                                   | 1.460 |
| 870714                   | 1403        | 40883                                |  | 500  | 1000   | 6 8             | 24.5                   |                                     | 0.005                       | 0.020                       | 0.200                                   | 2.150 |
| 870813                   | 1445        | 40895                                |  | 400AID   | 10<    | 5 8             | 27.0                   |                                     | 0.630                       | 0.020                       | 0.100<                                  | 2.200 |
| 870916                   | 1020        | 40935                                |  | 1500   | 1040   | 6 8             | 18.5                   |                                     | 0.120                       | 0.100                       | 2.800                                   | 2.000 |
| 871013                   | 1450        | 40947                                |  | 10AID  | 10<    | 6 8             | 10.5                   |                                     | 0.120                       | 0.010<                      | 0.100<                                  | 0.660 |
| 871110                   | 1500        | 40958                                |  | 6100   | 3500   | 6 8             | 6.0                    | 0.004                               |                             |                             |   |       |
| 871215                   | 1345        | 40963                                |  | 1500   | 31000  | 3 6 8           | 3.0                    |                                     | 0.033                       | 0.050                       | 0.700                                   | 7.200 |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

272

B.O.W./ SITE: CEDAR CREEK  
 SAMPLE POINT: AT HIGHWAY NO. 18  
 STATION TYPE: RIVER

STATION ID: 16-0018-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CEDAR CREEK

STORET CODE: 02  
 003  
 2460

LAT: 42 01 57.17 LONG: 082 49 55.14 U T M: 17 0348350.0 4654800.0 4 REGION: 01 DISTANCE: 4.828

| *=INTERIM TEST-NAME:     |             | DOC<br>CARBON<br>DISOLVED<br>ORGANIC<br>MG/L<br>AS O | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC          | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N |
|--------------------------|-------------|--|--|--|-----------------|----------------------------------|---|--|---|---|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                     |  |  | STREAM<br>COND. |                                  |   |  |   |   |   |
|                          |             | MAXIMUM  | 10.0   | 6100   |                 | 27.0                             | 0.004                                       | 0.630  | 0.260                                       | 5.100                                       | 7.200   |
|                          |             | ARITH MEAN   | 10.0   | 1011   |                 | 11.3                             | 0.004                                       | 0.126  | 0.080                                       | 2.733                                       | 2.115   |
|                          |             | GEOM MEAN  |  | 307  |                 | 6.6                              |   | 0.060  |   |   | 1.641   |
|                          |             | MINIMUM  | 10.0   | 10   |                 | 1.0                              | 0.004                                       | 0.005  | 0.020                                       | 0.200                                       | 0.660   |
|                          |             | STD DEV (GEOM *)                                     |  | 6*   |                 | 9.6                              |   | 0.176  |   |   | 1.869   |
|                          |             | # SAMP IN STATISTICS                                 | 1  | 11   |                 | 11                               | 1   | 11   | 10  | 9   | 11  |
|                          |             | % SAMP (EXCLUDED)                                    |  |  |                 |                                  |   |  | 9   | 18  |   |

| *=INTERIM TEST-NAME:     |             | PBUT                 | PH                                | PP04UR | PPUT                            | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|----------------------|-----------------------------------|--------|---------------------------------|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH     | P04<br>UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P               |                                   |                         |   |
| 870113                   | 1425        | 40811                | 0.003<                            | 8.01   | 0.043                           | 0.066  | 3.2                               | 16.70                   | 0.018                                     |
| 870210                   | 1457        | 40823                |                                   | 7.72   | 0.038                           | 0.150  | 4                                 | 22.4                    | 45.00                                     |
| 870310                   | 1430        | 40835                | 0.003                             | 8.08   | 0.033                           | 0.085  | 4<                                | 24.7                    | 39.00                                     |
| 870414                   | 1433        | 40847                | 0.003<                            | 8.00   | 0.035                           | 0.195  | 4<                                | 43.4                    | 87.00                                     |
| 870512                   | 1411        | 40859                | 0.003<                            | 7.78   | 0.134                           | 0.410  | 4>                                | 53.7                    | 50.00                                     |
| 870609                   | 1350        | 40871                | 0.003<                            | 7.80   | 0.056                           | 0.172  | 4<                                | 48.8                    | 54.00                                     |
| 870714                   | 1403        | 40883                | 0.003<                            | 8.32   | 0.023                           | 0.380  | 4<                                | 78.9                    | 68.00                                     |
| 870813                   | 1445        | 40895                | 0.003<                            | 7.96   | 0.070                           | 0.270  | 8                                 | 51.4                    | 62.00                                     |
| 870916                   | 1020        | 40935                | 0.003<                            | 7.67   | 0.041                           | 0.255  | 36C                               | 61.0                    | 138.00                                    |
| 871013                   | 1450        | 40947                |                                   |        | 0.014                           | 0.073  | 4<                                | 20.2                    | 18.00                                     |
| 871110                   | 1500        | 40958                | 0.003<                            |        |                                 |  | 40                                |                         | 0.010                                     |
| 871215                   | 1345        | 40963                |                                   | 7.68   | 0.119                           | 0.310  | 1496.2                            |                         |   |
|                          |             | MAXIMUM              | 0.003                             | 8.32   | 0.134                           | 0.410  | 40                                | 1496.2                  | 138.00                                    |
|                          |             | ARITH MEAN           | 0.003                             | 7.90   | 0.055                           | 0.215  | 22                                | 173.1                   | 57.77                                     |
|                          |             | GEOM MEAN            |                                   | 7.90   | 0.045                           | 0.181  |                                   | 44.9                    | 48.51                                     |
|                          |             | MINIMUM              | 0.003                             | 7.67   | 0.014                           | 0.066  | 4                                 | 3.2                     | 16.70                                     |
|                          |             | STD DEV (GEOM *)     |                                   | 0.21   | 0.038                           | 0.120  |                                   | 439.4                   | 35.39                                     |
|                          |             | # SAMP IN STATISTICS | 1                                 | 10     | 11                              | 11   | 4                                 | 11                      | 10  |
|                          |             | % SAMP (EXCLUDED)    | 88                                |        |                                 |  | 60                                |                         | 11  |



B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: AT CO.RD.20 4 MILES S-E OF LEAMINGTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH001

STATION ID: 16-0027-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: STURGEON RIVER

STORET CODE: 02  
 003  
 2320

LAT: 42 01 56.00 LONG: 082 33 54.02

U T M: 17 0370450.0 4654325.0 4

REGION: 01

DISTANCE: 3.058

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     | FWFLOW   |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          |          |          |          |          |          |          |          |          |
| SAMPLE DATE          | HOUR | SAMPLE               | PROJECT  | ALK      | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | FECAL    | FECAL    | STREAM   |
| YYMMDD               | LMT  | NUMBER               | SUB-PROJ | TOTAL    | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | COLIFORM | STREPCUS | FLOW     |
|                      |      |                      | CODE     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MF       | M3       |
|                      |      |                      |          | AS CAC03 | AS CL    | AS CL-   | AT 25 C  | AS O     | CNT      | CNT      | /S       |
|                      |      |                      |          |          |          |          |          |          | /100ML   | /100ML   |          |
| 870113               | 0938 | 40800                | 0101     | 228.0    |          | 57.500   | 865.0    | 15.0     |          |          | 0.128    |
| 870210               | 0917 | 40812                | 0101     | 241.0    |          | 62.000   | 920.0    | 15.0     | 1500>    | 510      | 0.123    |
| 870310               | 0910 | 40824                | 0101     | 249.0    | 57.000   |          | 995.0    | 12.0     |          |          | 0.128    |
| 870414               | 0935 | 40836                | 0101     | 211.0    |          | 51.500   | 835.0    | 11.0     | 1300     | 490      | 0.131    |
| 870512               | 0927 | 40848                | 0101     | 202.0    |          | 51.500   | 735.0    | 6.5      | 3300     | 2000     | 0.072    |
| 870609               | 0940 | 40860                | 0101     | 226.0    | 50.000   |          | 845.0    | 8.0      | 6800     | 2600     | 0.025    |
| 870714               | 0933 | 40872                | 0101     | 115.0    |          | 44.000   | 482.0    | 7.5      | 7900     | 15200>   | 0.171    |
| 870813               | 0915 | 40884                | 0101     | 240.0    |          | 45.000   | 750.0    | 5.5      | 1100     | 800AID   | 0.048    |
| 870916               | 1048 | 40896                | 0101     |          | 49.000   |          | 810.0    | 9.0      | 1800     | 2500     | 0.119    |
| 871013               | 0945 | 40936                | 0101     | 229.4    | 53.470   |          | 805.0    | 12.0     | 7000     | 1600     | 0.083    |
|                      |      | MAXIMUM              | 0.30     | 249.0    | 57.000   | 62.000   | 995.0    | 15.0     | 7900     | 2600     | 0.171    |
|                      |      | ARITH MEAN           | 0.30     | 215.7    | 52.367   | 51.917   | 804.2    | 10.1     | 4171     | 1500     | 0.103    |
|                      |      | GEOM MEAN            |          | 211.2    | 52.274   | 51.530   | 791.7    | 9.6      |          |          | 0.091    |
|                      |      | MINIMUM              | 0.30     | 115.0    | 49.000   | 44.000   | 482.0    | 5.5      | 1100     | 490      | 0.025    |
|                      |      | STD DEV (GEOM *)     |          | 40.5     | 3.634    | 6.982    | 136.5    | 3.4      |          |          | 0.044    |
|                      |      | # SAMP IN STATISTICS | 10       | 9        | 4        | 6        | 10       | 10       | 7        | 7        | 10       |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          | 12       | 12       |          |
| *=INTERIM TEST-NAME: |      | FWSTRC               | FWTEMP   | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH       | PPO4UR   | PPUT     | PSAMF    |
|                      |      |                      |          | NH3-N    |          |          | K'DAHL N |          |          |          | PSEUDOMN |
| SAMPLE DATE          | HOUR | SAMPLE               | STREAM   | TOTAL    | NO2-N    | NO3-N    | TOTAL    |          | P04      | PHOSPHOR | AERUG.   |
| YYMMDD               | LMT  | NUMBER               | COND.    | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |          | UNF.REAC | UNF.TOT. | MF       |
|                      |      |                      |          | MG/L     | MG/L     | MG/L     | MG/L     |          | MG/L     | MG/L     | CNT      |
|                      |      |                      |          | AS N     | AS N     | AS N     | AS N     | PH       | AS P     | AS P     | /100ML   |
| 870113               | 0938 | 40800                | 6 9      | 0.170    | 0.050    | 11.400   | 0.860    | 8.07     | 0.068    | 0.106    |          |
| 870210               | 0917 | 40812                | 4        | 0.345    | 0.070    | 10.500   | 1.800    | 7.91     | 0.076    | 0.145    | 8        |
| 870310               | 0910 | 40824                | 4        | 0.143    | 0.050    | 12.000   | 1.040    | 8.03     | 0.054    | 0.106    |          |
| 870414               | 0935 | 40836                | 6 8      | 0.015    | 0.150    | 8.500    | 0.920    | 7.91     | 0.037    | 0.114    | 8        |
| 870512               | 0927 | 40848                | 8 6      | 0.900    | 0.320    | 5.400    | 2.350    | 7.79     | 0.218    | 0.330    | 116      |
| 870609               | 0940 | 40860                | 5 8      | 0.410    | 0.280    | 10.400   | 1.620    | 7.97     | 0.345    | 0.530    | 128      |
| 870714               | 0933 | 40872                | 5 8      | 0.020    | 0.100    | 4.100    | 1.900    | 7.72     | 0.290    | 0.640    | 600>     |
| 870813               | 0915 | 40884                | 5 8      | 0.115    | 0.320    | 3.800    | 0.760    | 7.84     | 0.142    | 0.315    | 30AID    |
| 870916               | 1048 | 40896                | 6 8      | 0.015    | 0.040    | 0.700    | 1.250    | 8.05     | 0.049    | 0.225    | 56       |
| 871013               | 0945 | 40936                | 6 8      | 0.195    | 0.130    | 6.800    | 0.840    | 7.85     | 0.091    | 0.184    | 20       |

( C O N T D )

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: AT CO.RD.20 4 MILES S-E OF LEAMINGTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH001

STATION ID: 16-0027-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: STURGEON RIVER

STORET CODE: 02  
 003  
 2320

LAT: 42 01 56.00 LONG: 082 33 54.02 U T M: 17 0370450.0 4654325.0 4 REGION: 01 DISTANCE: 3.058

| *=INTERIM TEST-NAME:     |             | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH   | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML |
|--------------------------|-------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|------|---------------------------|------------------------------|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | PH   | MG/L<br>AS P              | MG/L<br>AS P                 |  |
| MAXIMUM                  |             |                  |                 | 24.0                     | 0.900                       | 0.320                       | 12.000                      | 8.07 | 0.345                     | 0.640                        | 128  |
| ARITH MEAN               |             |                  |                 | 10.8                     | 0.233                       | 0.151                       | 7.360                       | 7.91 | 0.137                     | 0.269                        | 52   |
| GEOM MEAN                |             |                  |                 | 5.9                      | 0.112                       | 0.115                       | 5.897                       | 7.91 | 0.104                     | 0.220                        |  |
| MINIMUM                  |             |                  |                 | 0.5                      | 0.015                       | 0.040                       | 0.700                       | 7.72 | 0.037                     | 0.106                        | 8  |
| STD DEV (GEOM *)         |             |                  |                 | 8.6                      | 0.270                       | 0.114                       | 3.802                       | 0.12 | 0.110                     | 0.187                        |  |
| # SAMP IN STATISTICS     |             |                  |                 | 10                       | 10                          | 10                          | 10                          | 10   | 10                        | 10                           | 7  |
| % SAMP (EXCLUDED)        |             |                  |                 |                          |                             |                             |                             |      |                           |                              | 12   |

| *=INTERIM TEST-NAME:     |             | RSP              | TURB                       |                 |
|--------------------------|-------------|------------------|----------------------------|-----------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU |
| 870113                   | 0938        | 40800            | 13.2                       | 14.40           |
| 870210                   | 0917        | 40812            | 20.4                       | 22.00           |
| 870310                   | 0910        | 40824            | 15.6                       | 22.00           |
| 870414                   | 0935        | 40836            | 26.8                       | 23.00           |
| 870512                   | 0927        | 40848            | 68.9                       | 62.00           |
| 870609                   | 0940        | 40860            | 41.7                       | 30.00           |
| 870714                   | 0933        | 40872            | 73.5                       | 98.00           |
| 870813                   | 0915        | 40884            | 33.0                       | 35.00           |
| 870916                   | 1048        | 40896            | 23.0                       | 26.00           |
| 871013                   | 0945        | 40936            | 43.3                       | 65.00           |
| MAXIMUM                  |             |                  | 73.5                       | 98.00           |
| ARITH MEAN               |             |                  | 35.9                       | 39.74           |
| GEOM MEAN                |             |                  | 30.9                       | 33.40           |
| MINIMUM                  |             |                  | 13.2                       | 14.40           |
| STD DEV (GEOM *)         |             |                  | 21.1                       | 26.64           |
| # SAMP IN STATISTICS     |             |                  | 10                         | 10              |
| % SAMP (EXCLUDED)        |             |                  |                            |                 |

B.O.W./ SITE: MUDDY CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE ERIE  
 STATION TYPE: RIVER

STATION ID: 16-0032-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: MUDDY CREEK

STORET CODE: 02  
 003  
 2280

LAT: 42 03 59.88 LONG: 082 27 55.92 U T M: 17 0378750.0 4658000.0 4 REGION: 01 DISTANCE: 0.322

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT  | BOD5     | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     |
|----------------------|------|--------|--------|-------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |       | BOD      |          |          |          |          | FECAL    | FECAL    |
|                      |      |        |        | ALK   | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | COLIFORM | STREPCUS |
|                      |      |        |        | TOTAL | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | MF       | MF       |
| SAMPLE               | DATE | DATE   | DEPTH  | AS    | AS       | AS CL    | AS CL-   | UMHO/CM  | MG/L     | /100ML   | /100ML   |
| YYMMDD               | HOUR | NUMBER | M      | CACO3 | O        |          |          | AT 25 C  | AS O     |          |          |
| 870113               | 1005 | 40801  | 0.30   | 0101  | 108.0    | 1.84     | 19.500   | 359.0    | 15.0     |          |          |
| 870210               | 0950 | 40813  | 0.30   | 0101  | 116.0    | 3.19     | 25.500   | 397.0    | 12.5     | 80       | 60AID    |
| 870310               | 0940 | 40825  | 0.30   | 0101  | 104.0    | 5.02     | 20.000   | 382.0    | 6.5      |          |          |
| 870414               | 0956 | 40837  | 0.30   | 0101  | 113.0    | 6.21     | 24.000   | 416.0    | 9.0      | 20AID    | 200      |
| 870512               | 0948 | 40849  | 0.30   | 0101  | 99.9     | 7.12     | 18.000   | 309.0    | 12.0     | 16       | 90AID    |
| 870609               | 1001 | 40861  | 0.30   | 0101  | 102.0    | 6.34     | 17.000   | 331.0    | 7.5      | 260      | 170      |
| 870714               | 0952 | 40873  | 0.30   | 0101  | 98.0     | 4.80     | 16.500   | 302.0    | 8.0      | 1500>    | 2700     |
| 870813               | 0930 | 40885  | 0.30   | 0101  | 110.0    | 3.76     | 22.000   | 311.0    | 8.0      | 500AID   | 100<     |
| 870916               | 1126 | 40897  | 0.30   | 0101  |          | 5.50     | 20.500   | 354.0    | 6.5      | 1100     | 370      |
| 871013               | 1000 | 40937  | 0.30   | 0101  | 100.9    | 3.81     | 26.270   | 377.0    | 9.5      | 80AID    | 30AID    |
| 871110               | 1000 | 40959  | 0.30   | 0101  | 150.0    | 3.55     | 34.360   | 429.0    | 9.5      | 700AID   | 2800     |
| 871215               | 1100 | 40961  | 0.30   | 0101  | 100.6    | 3.60     | 29.470   | 412.0    | 5.0      | 1100     | 6900     |
| MAXIMUM              |      | 0.30   |        |       | 150.0    | 7.12     | 34.360   | 429.0    | 15.0     | 1100     | 6900     |
| ARITH MEAN           |      | 0.30   |        |       | 109.3    | 4.56     | 24.600   | 364.9    | 9.1      | 428      | 1480     |
| GEOM MEAN            |      |        |        |       | 108.5    | 4.30     | 23.879   | 362.4    | 8.7      |          |          |
| MINIMUM              |      | 0.30   |        |       | 98.0     | 1.84     | 17.000   | 302.0    | 5.0      | 16       | 30       |
| STD DEV (GEOM *)     |      |        |        |       | 14.7     | 1.54     | 6.595    | 44.4     | 2.9      |          |          |
| # SAMP IN STATISTICS |      | 12     |        |       | 11       | 12       | 6        | 12       | 12       | 9        | 9        |
| % SAMP (EXCLUDED)    |      |        |        |       |          |          |          |          |          | 10       | 10       |

| *=INTERIM TEST-NAME: |      | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PPO4UR   | PPUT     | PSAMF    |
|----------------------|------|--------|--------|----------|----------|----------|----------|------|----------|----------|----------|
|                      |      |        |        | NH3-N    |          |          | K'DAHL N |      |          |          | PSEUDOMN |
|                      |      |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    |      | PO4      | PHOSPHOR | AERUG.   |
|                      |      |        |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | MF       |
| SAMPLE               | DATE | DATE   | STREAM | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | CNT      |
| YYMMDD               | HOUR | NUMBER | COND.  | AS N     | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | /100ML   |
| 870113               | 1005 | 40801  | 6 8    | 1.0      | 0.320    | 0.020    | 1.700    | 7.96 | 0.061    | 0.150    |          |
| 870210               | 0950 | 40813  | 4      | 0.5      | 0.560    | 0.030    | 1.300    | 7.83 | 0.045    | 0.140    | 4<       |
| 870310               | 0940 | 40825  | 4      | 1.0      | 0.589    | 0.030    | 2.200    | 7.80 | 0.071    | 0.245    |          |
| 870414               | 0956 | 40837  | 6 8    | 10.0     | 0.005<   | 0.850    | 3.700    | 7.77 | 0.061    | 0.224    | 4<       |
| 870512               | 0948 | 40849  | 8 6    | 12.0     | 0.005    | 0.030    | 1.200    | 8.22 | 0.093    | 0.326    | 4<       |
| 870609               | 1001 | 40861  | 6 8    | 12.5     | 0.820    | 0.080    | 1.300    | 7.67 | 0.057    | 0.280    |          |
| 870714               | 0952 | 40873  | 6 8    | 17.0     | 0.090    | 0.040    | 1.300    | 7.76 | 0.043    | 0.245    | 100C     |
| 870813               | 0930 | 40885  | 5 8    | 24.0     | 0.020    | 0.400    | 0.700    | 7.75 | 0.096    | 0.240    | 16       |
| 870916               | 1126 | 40897  | 6 8    | 21.0     | 0.015    | 0.020    | 0.400    | 7.87 | 0.006    | 0.215    | 12       |
| 871013               | 1000 | 40937  | 6 9 8  | 11.0     | 0.485    | 0.030    | 0.500    | 7.80 | 0.056    | 0.170    | 4<       |
| 871110               | 1000 | 40959  | 6 8    | 7.0      | 0.568    | 0.010<   | 0.300    | 7.51 | 0.044    | 0.184    | 4        |
| 871215               | 1100 | 40961  | 6 8    | 4.0      | 0.052    | 0.130    | 4.300    | 7.49 | 0.047    | 0.660    | 10<      |

( C O N T D )

B.O.W./ SITE: MUDDY CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE ERIE  
 STATION TYPE: RIVER

STATION ID: 16-0032-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: MUDDY CREEK

STORET CODE: 02  
 003  
 2280

LAT: 42 03 59.88 LONG: 082 27 55.92 U T M: 17 0378750.0 4658000.0 4 REGION: 01 DISTANCE: 0.322

| *=INTERIM TEST-NAME:     |             | FWSTRC           | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NN02UR<br>NO2-N<br>UNF.REAC | NN03UR<br>NO3-N<br>UNF.REAC | NNTKUR<br>K'DAHL N<br>TOTAL | PH    | PP04UR<br>PO4<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML |     |
|--------------------------|-------------|------------------|-----------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-------|---------------------------|------------------------------|--|-----|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N    | PH    | MG/L<br>AS P              | MG/L<br>AS P                 |  |     |
| MAXIMUM                  |             |                  |                 | 24.0                     | 0.820                       | 0.850                       | 4.300                       | 3.000 | 8.22                      | 0.096                        | 0.660  | 100 |
| ARITH MEAN               |             |                  |                 | 10.1                     | 0.320                       | 0.151                       | 1.575                       | 1.505 | 7.79                      | 0.057                        | 0.257  | 33  |
| GEOM MEAN                |             |                  |                 | 6.0                      |                             |                             | 1.170                       | 1.411 | 7.78                      | 0.049                        | 0.234  |     |
| MINIMUM                  |             |                  |                 | 0.5                      | 0.005                       | 0.020                       | 0.300                       | 0.850 | 7.49                      | 0.006                        | 0.140  | 4   |
| STD DEV (GEOM *)         |             |                  |                 | 7.8                      |                             |                             | 1.266                       | 0.602 | 0.19                      | 0.024                        | 0.138  |     |
| # SAMP IN STATISTICS     |             |                  |                 | 12                       | 11                          | 11                          | 12                          | 12    | 12                        | 12                           | 12   | 4   |
| % SAMP (EXCLUDED)        |             |                  |                 |                          | 8                           | 8                           |                             |       |                           |                              |  | 55  |

| *=INTERIM TEST-NAME:     |             | RSP              | TURB                       |                 |
|--------------------------|-------------|------------------|----------------------------|-----------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU |
| 870113                   | 1005        | 40801            | 16.4                       | 32.00           |
| 870210                   | 0950        | 40813            | 10.0                       | 11.60           |
| 870310                   | 0940        | 40825            | 51.7                       | 53.00           |
| 870414                   | 0956        | 40837            | 51.2                       | 77.00           |
| 870512                   | 0948        | 40849            | 65.3                       | 57.00           |
| 870609                   | 1001        | 40861            | 112.9                      | 94.00           |
| 870714                   | 0952        | 40873            | 70.3                       | 54.00           |
| 870813                   | 0930        | 40885            | 41.9                       | 49.00           |
| 870916                   | 1126        | 40897            | 47.7                       | 51.00           |
| 871013                   | 1000        | 40937            | 38.2                       | 42.00           |
| 871110                   | 1000        | 40959            | 30.6                       | 28.00           |
| 871215                   | 1100        | 40961            | 266.6                      |                 |
| MAXIMUM                  |             | 266.6            | 94.00                      |                 |
| ARITH MEAN               |             | 66.9             | 49.87                      |                 |
| GEOM MEAN                |             | 47.7             | 44.30                      |                 |
| MINIMUM                  |             | 10.0             | 11.60                      |                 |
| STD DEV (GEOM *)         |             | 68.4             | 22.56                      |                 |
| # SAMP IN STATISTICS     |             | 12               | 11                         |                 |
| % SAMP (EXCLUDED)        |             |                  |                            |                 |

B.O.W./ SITE: JOHN CLARK DRAIN  
 SAMPLE POINT: BISNETT RD,1.1 KILO W.OF KENT CO.RD.11  
 STATION TYPE: RIVER

STATION ID: 16-0044-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0044

LAT: 42 17 34.93 LONG: 081 57 56.02 U T M: 17 0420400.0 4682550.0 4 REGION: 01 DISTANCE: 3.360

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |      |        |          | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE               |      | SAMPLE | PROJECT  | MG/L     | MG/L     | UMHO/CM  | MF       | MF       |        | WATER  | UNF.REAC |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | STREAM | TEMP   | MG/L     |
| YYMMDD               | LMT  | NUMBER | CODE     |          |          |          | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870223               | 1200 | 39417  | 0101     |          | 22.500   | 555.0    | 390      | 312      | 4      | 0.5    | 0.010    |
| 870323               | 1230 | 39431  | 0101     |          | 32.000   | 670.0    | 36       | 4<       | 6      | 6.0    | 0.005<   |
| 870427               | 1220 | 39447  | 0101     |          | 79.500   | 710.0    | 108      | 44       | 6      | 10.0   | 0.200    |
| 870525               | 1230 | 39463  | 0101     |          | 33.500   | 690.0    | 600>     | 448      | 6      | 15.0   | 0.030    |
| 870622               | 1143 | 39478  | 0101     |          | 35.000   | 630.0    |          |          | 6      | 23.0   | 0.055    |
| 870727               | 1152 | 39491  | 0101     |          | 44.000   | 510.0    | 1500>    | 440      | 6      | 26.0   | 0.005    |
| 870824               | 1152 | 39505  | 0101     |          | 34.500   | 685.0    | 2800     | 2700     | 6      | 19.0   | 0.015    |
| 870928               | 1226 | 39519  | 0101     | 37.070   |          | 770.0    | 1300     | 1200     | 6      | 18.0   | 0.030    |
| 871026               | 1200 | 39533  | 0101     | 43.150   |          | 840.0    | 800AID   | 1800     | 6      | 10.0   | 0.051    |
| 871124               | 1207 | 39549  | 0101     | 35.170   |          | 805.0    | 460      | 410      | 6      | 7.0    | 0.022    |
| MAXIMUM              |      | 0.30   |          | 43.150   | 79.500   | 840.0    | 2800     | 2700     |        | 26.0   | 0.200    |
| ARITH MEAN           |      | 0.30   |          | 38.463   | 40.143   | 686.5    | 842      | 919      |        | 13.4   | 0.046    |
| GEOM MEAN            |      |        |          | 38.317   | 37.375   | 679.1    |          |          |        | 9.6    |          |
| MINIMUM              |      | 0.30   |          | 35.170   | 22.500   | 510.0    | 36       | 44       |        | 0.5    | 0.005    |
| STD DEV (GEOM *)     |      |        |          | 4.168    | 18.457   | 103.8    |          |          |        | 8.1    |          |
| # SAMP IN STATISTICS |      | 10     |          | 3        | 7        | 10       | 7        | 8        |        | 10     | 9        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 22       | 11       |        |        | 10       |

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH     | PP04UR   | PPUT     | RSP     | TURB     |        |
|----------------------|------|----------|----------|----------|--------|----------|----------|---------|----------|--------|
|                      |      | N02-N    | N03-N    | K'DAHL N |        | P04      | PHOSPHOR |         |          |        |
|                      |      | UNF.REAC | UNF.REAC | UNF.REAC |        | UNF.REAC | UNF.TOT. | RESIDUE |          |        |
| SAMPLE               |      | MG/L     | MG/L     | MG/L     |        | MG/L     | MG/L     | PARTIC. | TURB'ITY |        |
| DATE                 | HOUR | AS N     | AS N     | AS N     | PH     | AS P     | AS P     | MG/L    | FTU      |        |
| YYMMDD               | LMT  |          |          |          |        |          |          |         |          |        |
| 870223               | 1200 | 39417    | 0.140    | 6.000    | 1.800  | 7.89     | 0.073    | 1.210   | 780.5    | 225.00 |
| 870323               | 1230 | 39431    | 0.020    | 9.100    | 0.540  | 8.10     | 0.008    | 0.028   | 19.3     | 11.20  |
| 870427               | 1220 | 39447    | 0.080    | 6.600    | 0.820  | 8.09     | 0.007    | 0.074   | 48.4     | 18.60  |
| 870525               | 1230 | 39463    | 0.060    | 4.900    | 0.940  | 8.13     | 0.001<   | 0.098   | 40.2     | 38.00  |
| 870622               | 1143 | 39478    | 0.080    | 1.700    | 1.000  | 7.70     | 0.039    | 0.124   | 35.4     | 49.00  |
| 870727               | 1152 | 39491    | 0.010<   | 0.100<   | 1.500  | 7.68     | 0.001    | 0.210   | 58.5     | 69.00  |
| 870824               | 1152 | 39505    | 0.060    | 6.300    | 1.550  | 8.07     | 0.068    | 0.155   | 43.3     | 40.00  |
| 870928               | 1226 | 39519    | 0.110    | 5.600    | 0.960  | 8.14     | 0.050    | 0.148   | 69.4     | 74.00  |
| 871026               | 1200 | 39533    | 0.030    | 13.600   | 10.600 | 7.81     | 0.090    | 0.332   | 66.0     | 40.00  |
| 871124               | 1207 | 39549    | 0.040    | 7.700    | 0.950  | 7.92     | 0.050    | 0.110   | 43.6     | 46.00  |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

278

B.O.W./ SITE: JOHN CLARK DRAIN  
 SAMPLE POINT: BISNETT RD,1.1 KILO W.OF KENT CO.RD.11  
 STATION TYPE: RIVER

STATION ID: 16-0044-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0044

LAT: 42 17 34.93 LONG: 081 57 56.02

U T M: 17 0420400.0 4682550.0 4

REGION: 01

DISTANCE: 3.360

| *=INTERIM TEST-NAME: |             | NNO2UR               | NNO3UR            | NNTKUR<br>K'DAHL N<br>TOTAL | PH           | PP04UR          | PPUT                 | RSP                | TURB     |        |
|----------------------|-------------|----------------------|-------------------|-----------------------------|--------------|-----------------|----------------------|--------------------|----------|--------|
|                      |             | NO2-N<br>UNF.REAC    | NO3-N<br>UNF.REAC | UNF.REAC                    |              | P04<br>UNF.REAC | PHOSPHOR<br>UNF.TOT. | RESIDUE<br>PARTIC. | TURB'ITY |        |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER     | MG/L<br>AS N      | MG/L<br>AS N                | MG/L<br>AS N | MG/L<br>AS P    | MG/L<br>AS P         | MG/L               | FTU      |        |
|                      |             | MAXIMUM              | 0.140             | 13.600                      | 10.600       | 8.14            | 0.090                | 1.210              | 780.5    | 225.00 |
|                      |             | ARITH MEAN           | 0.069             | 6.833                       | 2.066        | 7.95            | 0.043                | 0.249              | 120.5    | 61.08  |
|                      |             | GEOM MEAN            |                   |                             | 1.326        | 7.95            |                      | 0.149              | 59.2     | 44.83  |
|                      |             | MINIMUM              | 0.020             | 1.700                       | 0.540        | 7.68            | 0.001                | 0.028              | 19.3     | 11.20  |
|                      |             | STD DEV (GEOM *)     |                   |                             | 3.023        | 0.18            |                      | 0.348              | 232.4    | 60.72  |
|                      |             | # SAMP IN STATISTICS | 9                 | 9                           | 10           | 10              | 9                    | 10                 | 10       | 10     |
|                      |             | % SAMP (EXCLUDED)    | 10                | 10                          |              |                 | 10                   |                    |          |        |

B.O.W./ SITE: INDIAN CREEK  
 SAMPLE POINT: 1 KM SOUTH OF GUILDS  
 STATION TYPE: RIVER

STATION ID: 16-0050-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0050

LAT: 42 20 15.46 LONG: 081 54 33.08

U T M: 17 0425100.0 4687450.0 4

REGION: 01

DISTANCE: 3.680

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |        | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
|                      |      |        |        | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        |        | TOTAL    |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | UNF.REAC | UMHO/CM  | MF       | MF       |        | WATER  | UNF.REAC |
| YYMMDD               | HOUR | YYMMDD | M      | SUB-PROJ | MG/L     | AT 25 C  | CNT      | CNT      | STREAM | TEMP   | MG/L     |
|                      | LMT  | NUMBER |        | CODE     | AS CL    |          | /100ML   | /100ML   | COND.  | DEG.C  | AS N     |
| 870126               | 1326 | 39404  | 0.30   | 0101     |          | 32.000   | 825.0    | 2300     | 1500>  | 4      | 0.345    |
| 870223               | 1225 | 39418  | 0.30   | 0101     |          | 23.000   | 585.0    | 520      | 370    | 5      | 0.145    |
| 870323               | 1256 | 39432  | 0.30   | 0101     |          | 33.500   | 685.0    | 272      | 24     | 6      | 0.085    |
| 870427               | 1254 | 39448  | 0.30   | 0101     |          | 39.500   | 765.0    | 384      | 52     | 6      | 0.035    |
| 870525               | 1240 | 39464  | 0.30   | 0101     |          | 30.000   | 795.0    | 610      | 420    | 6      | 0.040    |
| 870622               | 1203 | 39479  | 0.30   | 0101     |          | 51.000   | 820.0    |          |        | 6      | 0.425    |
| 870727               | 1211 | 39492  | 0.30   | 0101     |          | 108.000  | 830.0    | 4500     | 1450   | 6      | 0.760    |
| 870824               | 1238 | 39506  | 0.30   | 0101     |          | 48.500   | 805.0    |          | 2800   | 6      | 0.135    |
| 870928               | 1246 | 39520  | 0.30   | 0101     | 32.270   | 810.0    | 1190     | 620      |        |        | 0.065    |
| 871026               | 1222 | 39534  | 0.30   | 0101     | 34.270   | 825.0    | 3800     | 1000     | 6      | 9.0    | 0.143    |
| 871124               | 1230 | 39550  | 0.30   | 0101     | 40.060   | 800.0    | 1500>    | 6800     | 6      | 7.0    | 0.208    |
| MAXIMUM              |      | 0.30   |        |          | 40.060   | 108.000  | 830.0    | 4500     | 6800   | 26.0   | 0.760    |
| ARITH MEAN           |      | 0.30   |        |          | 35.533   | 45.687   | 776.8    | 1697     | 1504   | 11.7   | 0.217    |
| GEOM MEAN            |      |        |        |          | 35.384   | 40.883   | 773.0    |          |        | 6.7    | 0.143    |
| MINIMUM              |      | 0.30   |        |          | 32.270   | 23.000   | 585.0    | 272      | 24     | 0.5    | 0.035    |
| STD DEV (GEOM *)     |      |        |        |          | 4.046    | 26.870   | 75.8     |          |        | 8.8    | 0.218    |
| # SAMP IN STATISTICS |      | 11     |        |          | 3        | 8        | 11       | 8        | 9      | 10     | 11       |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          | 11       | 10     |        |          |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH    | PP04UR   | PPUT     | RSP     | TURB     |       |
|----------------------|------|----------|----------|----------|-------|----------|----------|---------|----------|-------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |       | P04      | PHOSPHOR |         |          |       |
|                      |      | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | RESIDUE |          |       |
| SAMPLE               | DATE | DATE     | DATE     | DATE     | PH    | MG/L     | MG/L     | PARTIC. | TURB'ITY |       |
| YYMMDD               | HOUR | YYMMDD   | YYMMDD   | YYMMDD   |       | AS P     | AS P     | MG/L    | FTU      |       |
|                      | LMT  | NUMBER   | AS N     | AS N     |       |          |          |         |          |       |
| 870126               | 1326 | 39404    | 0.040    | 18.100   | 1.140 | 8.03     | 0.047    | 0.082   | 14.7     | 14.10 |
| 870223               | 1225 | 39418    | 0.100    | 9.000    | 1.100 | 7.99     | 0.058    | 0.124   | 20.5     | 38.00 |
| 870323               | 1256 | 39432    | 0.030    | 13.000   | 0.630 | 8.22     | 0.019    | 0.043   | 8.3      | 8.60  |
| 870427               | 1254 | 39448    | 0.130    | 17.000   | 0.800 | 8.20     | 0.009    | 0.052   | 14.0     | 12.20 |
| 870525               | 1240 | 39464    | 0.110    | 14.000   | 0.670 | 8.23     | 0.016    | 0.065   | 11.5     | 14.90 |
| 870622               | 1203 | 39479    | 0.490    | 7.600    | 1.490 | 8.12     | 0.147    | 0.220   | 9.6      | 14.10 |
| 870727               | 1211 | 39492    | 0.030    | 0.100    | 2.100 | 7.76     | 0.480    | 0.610   | 12.7     | 12.30 |
| 870824               | 1238 | 39506    | 0.080    | 10.900   | 1.000 | 8.18     | 0.076    | 0.114   | 23.2     | 29.00 |
| 870928               | 1246 | 39520    | 0.090    | 13.400   | 0.780 | 8.26     | 0.051    | 0.099   | 15.7     | 15.30 |
| 871026               | 1222 | 39534    | 0.050    | 11.200   | 0.910 | 8.04     | 0.056    | 0.154   | 6.9      | 9.20  |
| 871124               | 1230 | 39550    | 0.080    | 13.800   | 1.050 | 8.11     | 0.080    | 0.140   | 9.4      | 12.90 |

( C O N T D )





B.O.W./ SITE: COLEMAN DRAIN  
 SAMPLE POINT: KENT CO.RD.11, 1.8 KILO WEST OF HWY51,  
 STATION TYPE: RIVER

STATION ID: 16-0051-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0051

LAT: 42 20 22.70 LONG: 081 52 57.05 U T M: 17 0427300.0 4687650.0 4 REGION: 01 DISTANCE: 1.600

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | FCMF     | FSMF     | FWSTRC | FWTEMP | NNHTUR   |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|--------|--------|----------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | FECAL    | FECAL    |        |        | NH3-N    |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | COLIFORM | STREPCUS |        | WATER  | TOTAL    |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MF       | MF       | STREAM | TEMP   | UNF.REAC |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CL    | AS CL-   | AT 25 C  | CNT      | CNT      | COND.  | DEG.C  | MG/L     |
|                      |      |        |          |          |          |          | /100ML   | /100ML   |        |        | AS N     |
| 870126               | 1338 | 39405  | 0101     |          | 18.500   | 755.0    | 250      | 12       | 4      | 0.5    | 0.040    |
| 870223               | 1235 | 39419  | 0101     |          | 16.500   | 520.0    | 44       | 350      | 4      | 0.5    | 0.520    |
| 870323               | 1309 | 39433  | 0101     |          | 20.500   | 605.0    | 32       | 4<       | 6      | 9.0    | 0.015    |
| 870427               | 1303 | 39449  | 0101     |          | 31.500   | 640.0    | 330      | 380      | 5      | 9.0    | 0.010    |
| 870525               | 1303 | 39465  | 0101     |          | 18.000   | 690.0    | 600>     | 212      | 6      | 15.0   | 0.030    |
| 870622               | 1233 | 39480  | 0101     |          | 21.000   | 555.0    |          |          | 6      | 22.0   | 0.005<   |
| 870727               | 1224 | 39493  | 0101     |          | 31.000   | 515.0    | 1700     | 440      | 6      | 26.0   | 0.155    |
| 870928               | 1300 | 39521  | 0101     | 16.140   |          | 765.0    | 1200     | 1200     |        |        | 0.010    |
| 871026               | 1240 | 39535  | 0101     | 24.490   |          | 845.0    | 1200     | 2100     | 6      | 9.0    | 0.005    |
| 871124               | 1240 | 39551  | 0101     | 19.340   |          | 755.0    | 200AID   | 300AID   | 6      | 7.0    | 0.005    |
| MAXIMUM              |      | 0.30   |          | 24.490   | 31.500   | 845.0    | 1700     | 2100     |        | 26.0   | 0.520    |
| ARITH MEAN           |      | 0.30   |          | 19.990   | 22.429   | 664.5    | 620      | 624      |        | 10.9   | 0.088    |
| GEOM MEAN            |      |        |          | 19.699   | 21.760   | 655.4    |          |          |        | 6.1    |          |
| MINIMUM              |      | 0.30   |          | 16.140   | 16.500   | 515.0    | 32       | 12       |        | 0.5    | 0.005    |
| STD DEV (GEOM *)     |      |        |          | 4.213    | 6.214    | 115.0    |          |          |        | 8.7    |          |
| # SAMP IN STATISTICS |      | 10     |          | 3        | 7        | 10       | 8        | 8        |        | 9      | 9        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          | 11       | 11       |        |        | 10       |

| *=INTERIM TEST-NAME: |      | NN02UR   | NN03UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE | TURB'ITY |
| DATE                 | HR   | MG/L     | MG/L     | MG/L     | PH   | MG/L     | MG/L     | PARTIC. | FTU      |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     |      | AS P     | AS P     | MG/L    |          |
| 870126               | 1338 | 39405    | 8.600    | 0.840    | 8.00 | 0.010    | 0.048    | 30.0    | 25.00    |
| 870223               | 1235 | 39419    | 5.200    | 1.550    | 7.87 | 0.027    | 0.150    | 50.0    | 80.00    |
| 870323               | 1309 | 39433    | 5.800    | 0.680    | 8.19 | 0.008    | 0.028    | 12.6    | 16.30    |
| 870427               | 1303 | 39449    | 5.700    | 0.900    | 8.20 | 0.004    | 0.054    | 33.4    | 20.00    |
| 870525               | 1303 | 39465    | 5.000    | 0.980    | 8.19 | 0.003    | 0.094    | 52.9    | 41.00    |
| 870622               | 1233 | 39480    | 2.200    | 1.260    | 8.04 | 0.047    | 0.176    | 76.8    | 89.00    |
| 870727               | 1224 | 39493    | 0.100<   | 4.750    | 7.62 | 0.012    | 0.725    | 176.5   | 95.00    |
| 870928               | 1300 | 39521    | 5.900    | 1.040    | 8.28 | 0.023    | 0.082    | 37.3    | 54.00    |
| 871026               | 1240 | 39535    | 8.900    | 1.080    | 8.05 | 0.105    | 0.076    | 26.8    | 23.00    |
| 871124               | 1240 | 39551    | 4.500    | 0.650    | 8.04 | 0.020    | 0.070    | 18.7    | 8.70     |

( C O N T D )

B.O.W./ SITE: COLEMAN DRAIN  
 SAMPLE POINT: KENT CO.RD.11, 1.8 KILO WEST OF HWY51,  
 STATION TYPE: RIVER

STATION ID: 16-0051-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0051

LAT: 42 20 22.70 LONG: 081 52 57.05

U T M: 17 0427300.0 4687650.0 4

REGION: 01

DISTANCE: 1.600

| *=INTERIM TEST-NAME: |      | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | RSP     | TURB     |
|----------------------|------|----------|----------|----------|------|----------|----------|---------|----------|
|                      |      | NO2-N    | NO3-N    | K'DAHL N |      | P04      | PHOSPHOR |         |          |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC |      | UNF.REAC | UNF.TOT. | RESIDUE |          |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     |      | MG/L     | MG/L     | PARTIC. | TURB'ITY |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | PH   | AS P     | AS P     | MG/L    | FTU      |
| MAXIMUM              |      | 0.130    | 8.900    | 4.750    | 8.28 | 0.105    | 0.725    | 176.5   | 95.00    |
| ARITH MEAN           |      | 0.036    | 5.756    | 1.373    | 8.05 | 0.026    | 0.150    | 51.5    | 45.20    |
| GEOM MEAN            |      | 0.025    |          | 1.131    | 8.05 | 0.015    | 0.095    | 39.2    | 34.58    |
| MINIMUM              |      | 0.010    | 2.200    | 0.650    | 7.62 | 0.003    | 0.028    | 12.6    | 8.70     |
| STD DEV (GEOM *)     |      | 0.037    |          | 1.216    | 0.19 | 0.031    | 0.207    | 47.7    | 32.33    |
| # SAMP IN STATISTICS |      | 10       | 9        | 10       | 10   | 10       | 10       | 10      | 10       |
| % SAMP (EXCLUDED)    |      |          | 10       |          |      |          |          |         |          |

## 283

STORET CODE: 02  
003  
1970

DISTANCE: 8.047

[illegible]

| *INTERIM       |                | TEST-NAME:       | FSMF                | FWSTRC          | FWTEMP                 | NNHTUR         | NN02UR            | NN03UR            | NNTKUR            | PBUT             | PH   | PP04UR          |
|----------------|----------------|------------------|---------------------|-----------------|------------------------|----------------|-------------------|-------------------|-------------------|------------------|------|-----------------|
|                |                |                  | FECAL<br>STREPCUS   |                 |                        | NH3-N<br>TOTAL | N02-N<br>UNF.REAC | N03-N<br>UNF.REAC | K'DAHL N<br>TOTAL | LEAD<br>UNF.TOT. |      | P04<br>UNF.REAC |
| SAMPLE<br>DATE | HRUR<br>YYMMDD | SAMPLE<br>NUMBER | MF<br>CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | MG/L<br>AS N   | MG/L<br>AS N      | MG/L<br>AS N      | MG/L<br>AS N      | MG/L<br>AS PB    | PH   | MG/L<br>AS P    |
| 870127         | 1000           | 39410            | 140                 | 4               | 1.0                    | 0.130          | 0.010             | 4.200             | 0.710             | 0.003<           | 7.88 | 0.015           |
| 870224         | 0925           | 39423            | 228                 | 6               | 1.0                    | 0.080          | 0.040             | 3.300             | 0.560             | 0.003<           | 8.09 | 0.018           |
| 870324         | 1115           | 39438            | 80                  | 6               | 9.0                    | 0.005          | 0.010<            | 3.200             | 0.560             | 0.003<           | 8.35 | 0.010           |
| 870428         | 1100           | 39454            | 1400                | 5               | 9.0                    | 3.600          | 0.390             | 1.700             | 6.800             | 0.003<           | 8.23 | 0.070           |
| 870526         | 0900           | 39470            | 24                  | 6               | 13.0                   | 0.020          | 0.010<            | 0.300             | 0.820             | 0.003<           | 8.11 | 0.013           |
| 870623         | 0910           | 39484            | 1700                | 6               | 21.0                   | 0.005<         | 0.080             | 1.500             | 0.800             | 0.003<           | 8.25 | 0.018           |
| 870728         | 0845           | 39497            | 2200                | 6               | 17.0                   | 0.300          | 0.090             | 0.500             | 2.150             | 0.003<           | 7.85 | 0.024           |
| 870825         | 0830           | 39511            | 880                 | 6               | 13.0                   | 0.025          | 0.040             | 1.800             | 0.600             | 0.003<           | 8.14 | 0.044           |
| 870929         | 0845           | 39525            | 1130                | 6               | 16.0                   | 0.010          | 0.030             | 3.500             | 0.750             | 0.003<           | 8.02 | 0.024           |
| 871027         | 0900           | 39540            | 31000               | 6               | 9.0                    | 0.015          | 0.030             | 3.500             | 2.600             | 0.008            | 7.93 | 0.397           |
| 871125         | 0850           | 39556            | 900AID              | 6               | 6.0                    | 0.133          | 0.030             | 2.900             | 1.850             | 0.060<           | 7.91 | 0.167           |

( C O N T D )

B.O.W./ SITE: SIXTEEN MILE CREEK  
 SAMPLE POINT: AT BACK STREET, RODNEY  
 STATION TYPE: RIVER

STATION ID: 16-0063-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SIXTEEN MILE CREEK

STORET CODE: 02  
 003  
 1970

LAT: 42 33 20.99 LONG: 081 40 35.94 U T M: 17 0444450.0 4711500.0 4 REGION: 01 DISTANCE: 8.047

| *=INTERIM TEST-NAME:     |         | FSMF<br>FECAL<br>STREPCUS<br>MF | FWSTRC        | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PP04UR<br>PO4<br>UNF.REAC<br>MG/L |
|--------------------------|---------|---------------------------------|---------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOURLMT | SAMPLE<br>NUMBER                | CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | PH                                |

|                      |  |       |  |  |      |       |       |       |       |       |      |       |
|----------------------|--|-------|--|--|------|-------|-------|-------|-------|-------|------|-------|
| MAXIMUM              |  | 31000 |  |  | 21.0 | 3.600 | 0.390 | 4.200 | 6.800 | 0.008 | 8.35 | 0.397 |
| ARITH MEAN           |  | 3607  |  |  | 10.5 | 0.432 | 0.082 | 2.400 | 1.655 | 0.008 | 8.07 | 0.073 |
| GEOM MEAN            |  | 651   |  |  | 7.5  |       |       | 1.888 | 1.149 |       | 8.07 | 0.034 |
| MINIMUM              |  | 24    |  |  | 1.0  | 0.005 | 0.010 | 0.300 | 0.560 | 0.008 | 7.85 | 0.010 |
| STD DEV (GEOM *)     |  | 7*    |  |  | 6.3  |       |       | 1.305 | 1.852 |       | 0.17 | 0.117 |
| # SAMP IN STATISTICS |  | 11    |  |  | 11   | 10    | 9     | 11    | 11    | 1     | 11   | 11    |
| % SAMP (EXCLUDED)    |  |       |  |  |      | 9     | 18    |       |       | 90    |      |       |

| *=INTERIM TEST-NAME:     |         | PPUT             | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF    | RSP                        | TURB            | ZNUT                              |
|--------------------------|---------|------------------|--------------------------------------|----------------------------|-----------------|-----------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOURLMT | SAMPLE<br>NUMBER | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |

|        |      |       |       |      |       |        |       |
|--------|------|-------|-------|------|-------|--------|-------|
| 870127 | 1000 | 39410 | 0.041 | 4<   | 9.9   | 11.50  | 0.007 |
| 870224 | 0925 | 39423 | 0.037 | 4<   | 13.0  | 13.40  | 0.010 |
| 870324 | 1115 | 39438 | 0.018 | 4<   | 7.1   | 6.00   | 0.006 |
| 870428 | 1100 | 39454 | 0.280 | 36   | 41.4  | 29.00  | 0.006 |
| 870526 | 0900 | 39470 | 0.080 | 4<   | 31.9  | 38.00  | 0.010 |
| 870623 | 0910 | 39484 | 0.102 | 48   | 33.5  | 43.00  | 0.013 |
| 870728 | 0845 | 39497 | 0.175 | 120  | 64.6  | 148.00 | 0.019 |
| 870825 | 0830 | 39511 | 0.053 | 116  | 8.9   | 13.80  | 0.004 |
| 870929 | 0845 | 39525 | 0.099 | 4<   | 53.1  | 48.00  | 0.013 |
| 871027 | 0900 | 39540 | 1.200 | 440C | 83.2  | 168.00 | 0.061 |
| 871125 | 0850 | 39556 | 0.610 | 40C  | 180.5 | 145.00 | 0.055 |

|                      |  |       |     |       |        |       |
|----------------------|--|-------|-----|-------|--------|-------|
| MAXIMUM              |  | 1.200 | 440 | 180.5 | 168.00 | 0.061 |
| ARITH MEAN           |  | 0.245 | 133 | 47.9  | 60.34  | 0.019 |
| GEOM MEAN            |  | 0.114 |     | 30.1  | 35.26  | 0.012 |
| MINIMUM              |  | 0.018 | 36  | 7.1   | 6.00   | 0.004 |
| STD DEV (GEOM *)     |  | 0.360 |     | 50.5  | 61.71  | 0.020 |
| # SAMP IN STATISTICS |  | 11    | 6   | 11    | 11     | 11    |
| % SAMP (EXCLUDED)    |  |       | 45  |       |        |       |

## 1987 WATER QUALITY DATA REGION 1

285

B.O.W./ SITE: BROCK CREEK  
 SAMPLE POINT: AT MIDDLE ST.3MILES S.OF WEST LORNE  
 STATION TYPE: RIVER

STATION ID: 16-0066-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BROCK CREEK

STORET CODE: 02  
 003  
 1940

LAT: 42 34 42.00 LONG: 081 35 51.69 U T M: 17 0450950.0 4713950.0 4 REGION: 01 DISTANCE: 5.793

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |                      |        | ALK      | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |                      |        | TOTAL    | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               | DATE | DATE                 | DEPTH  | PROJECT  | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YMMDD                | LMT  | NUMBER               | M      | SUB-PROJ | AS CAC03 | AS 0     | AS CL    | AT 25 C  | AS CU    | AS 0     | /100ML   |
|                      |      |                      |        | CODE     |          |          |          |          |          |          |          |
| 870127               | 1045 | 39411                | 0.30   | 0101     | 225.0    | 0.75     |          | 640.0    | 0.002    | 10.5     | 320      |
| 870224               | 0955 | 39424                | 0.30   | 0101     | 213.0    | 2.57     |          | 550.0    | 0.002    |          | 600>     |
| 870324               | 1145 | 39439                | 0.30   | 0101     | 194.0    | 1.49     |          | 510.0    | 0.004    | 15.0     | 70AID    |
| 870428               | 1130 | 39455                | 0.30   | 0101     | 175.0    | 3.74     |          | 615.0    | 0.003    | 10.0     | 10AID    |
| 870526               | 0920 | 39471                | 0.30   | 0101     | 198.0    | 1.78     |          | 610.0    | 0.004    | 11.0     | 208      |
| 870623               | 0945 | 39485                | 0.30   | 0101     | 180.0    | 3.08     |          | 575.0    | 0.004    | 9.0      | 2300     |
| 870728               | 0930 | 39498                | 0.30   | 0101     | 147.0    | 3.98     |          | 515.0    | 0.006    | 11.0     | 900AID   |
| 870825               | 0900 | 39512                | 0.30   | 0101     | 231.0    | 1.12     |          | 635.0    | 0.004    | 10.5     | 1160     |
| 870929               | 0920 | 39526                | 0.30   | 0101     | 246.3    | 0.59     | 34.210   | 690.0    | 0.005    | 9.5      | 720      |
| 871027               | 0940 | 39541                | 0.30   | 0101     | 154.6    | 6.12     | 28.490   | 515.0    | 0.009    | 9.5      | 10000    |
| 871125               | 0915 | 39557                | 0.30   | 0101     | 183.5    | 2.59     | 27.480   | 530.0    | 0.004    | 10.5     | 3000AID  |
|                      |      | MAXIMUM              | 0.30   |          | 246.3    | 6.12     | 34.210   | 690.0    | 0.009    | 15.0     | 10000    |
|                      |      | ARITH MEAN           | 0.30   |          | 195.2    | 2.53     | 30.060   | 580.5    | 0.004    | 10.6     | 1869     |
|                      |      | GEOM MEAN            |        |          | 192.9    | 2.03     | 29.919   | 577.6    | 0.004    | 10.5     |          |
|                      |      | MINIMUM              | 0.30   |          | 147.0    | 0.59     | 27.480   | 510.0    | 0.002    | 9.0      | 10       |
|                      |      | STD DEV (GEOM *)     |        |          | 31.4     | 1.65     | 3.629    | 61.3     | 0.002    | 1.7      |          |
|                      |      | # SAMP IN STATISTICS | 11     |          | 11       | 11       | 3        | 11       | 11       | 10       | 10       |
|                      |      | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          |          | 9        |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH     | PP04UR   |       |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|--------|----------|-------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |        |          |       |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |        | P04      |       |
|                      |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF.REAC |       |
| SAMPLE               | DATE | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     | PH     | MG/L     |       |
| YMMDD                | LMT  | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    |        | AS P     |       |
| 870127               | 1045 | 39411    | 80AID  | 4      | 1.0      | 0.065    | 0.020    | 6.200    | 0.740    | 0.003< | 7.91     | 0.016 |
| 870224               | 0955 | 39424    | 184    | 6      | 1.0      | 0.060    | 0.140    | 4.100    | 1.060    | 0.003< | 8.07     | 0.032 |
| 870324               | 1145 | 39439    | 20AID  | 6      | 10.0     | 0.005<   | 0.010    | 4.600    | 0.720    | 0.003< | 8.42     | 0.015 |
| 870428               | 1130 | 39455    | 10<    | 6      | 11.0     | 5.100    | 0.170    | 1.600    | 7.000    | 0.003< | 7.85     | 0.095 |
| 870526               | 0920 | 39471    | 552    | 6      | 14.0     | 0.005<   | 0.150    | 3.800    | 0.720    | 0.003< | 8.18     | 0.004 |
| 870623               | 0945 | 39485    | 1900   | 6      | 23.0     | 0.225    | 0.160    | 2.500    | 1.320    | 0.003< | 8.32     | 0.048 |
| 870728               | 0930 | 39498    | 2200   | 6      | 17.0     | 0.015    | 0.080    | 0.800    | 0.900    | 0.003< | 8.20     | 0.040 |
| 870825               | 0900 | 39512    | 540    | 6      | 13.0     | 0.005<   | 0.060    | 4.000    | 0.720    | 0.003< | 8.27     | 0.048 |
| 870929               | 0920 | 39526    | 460    | 6      | 16.0     | 0.005    | 0.040    | 5.400    | 0.650    | 0.003< | 8.08     | 0.042 |
| 871027               | 0940 | 39541    | 14000  | 6      | 10.0     | 0.149    | 0.030    | 3.100    | 1.800    | 0.009  | 7.88     | 0.097 |
| 871125               | 0915 | 39557    | 400AID | 6      | 6.0      | 0.009    | 0.020    | 4.900    | 1.100    | 0.004  | 7.87     | 0.105 |

( C O N T D )

B.O.W./ SITE: BROCK CREEK  
 SAMPLE POINT: AT MIDDLE ST.3MILES S.OF WEST LORNE  
 STATION TYPE: RIVER

STATION ID: 16-0066-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BROCK CREEK

STORET CODE: 02  
 003  
 1940

| LAT: 42 34 42.00 |                    | LONG: 081 35 51.69 |          | U T M: 17 0450950.0 4713950.0 4 |          | REGION: 01 |          | DISTANCE: 5.793 |          |      |          |
|------------------|--------------------|--------------------|----------|---------------------------------|----------|------------|----------|-----------------|----------|------|----------|
| *=INTERIM        | TEST-NAME:         | FSMF               | FWSTRC   | FWTEMP                          | NNHTUR   | NNO2UR     | NNO3UR   | NNTKUR          | PBUT     | PH   | PP04UR   |
|                  |                    | FECAL              |          |                                 | NH3-N    |            |          | K'DAHL N        |          |      |          |
|                  |                    | STREPCUS           |          |                                 | TOTAL    | NO2-N      | NO3-N    | TOTAL           | LEAD     |      | P04      |
| SAMPLE           |                    | MF                 |          | WATER                           | UNF.REAC | UNF.REAC   | UNF.REAC | UNF.REAC        | UNF.TOT. |      | UNF.REAC |
| DATE             | HR                 | CNT                | STREAM   | TEMP                            | MG/L     | MG/L       | MG/L     | MG/L            | MG/L     |      | MG/L     |
| YYMMDD           | LMT                | /100ML             | COND.    | DEG.C                           | AS N     | AS N       | AS N     | AS N            | AS PB    | PH   | AS P     |
|                  |                    | MAXIMUM            | 14000    | 23.0                            | 5.100    | 0.170      | 6.200    | 7.000           | 0.009    | 8.42 | 0.105    |
|                  |                    | ARITH MEAN         | 2034     | 11.1                            | 0.703    | 0.080      | 3.727    | 1.521           | 0.006    | 8.10 | 0.049    |
|                  |                    | GEOM MEAN          |          | 7.9                             | 0.055    | 0.055      | 3.276    | 1.109           |          | 8.09 | 0.036    |
|                  |                    | MINIMUM            | 20       | 1.0                             | 0.005    | 0.010      | 0.800    | 0.650           | 0.004    | 7.85 | 0.004    |
|                  |                    | STD DEV (GEOM *)   |          | 6.7                             | 0.063    | 0.063      | 1.621    | 1.849           |          | 0.20 | 0.035    |
| #                | SAMP IN STATISTICS | 10                 |          | 11                              | 8        | 11         | 11       | 11              | 2        | 11   | 11       |
| %                | SAMP (EXCLUDED)    | 9                  |          | 27                              |          |            |          |                 | 81       |      |          |
| *=INTERIM        | TEST-NAME:         | PPUT               | PSAMF    | RSP                             | TURB     | ZNUT       |          |                 |          |      |          |
|                  |                    | PHOSPHOR           | PSEUDOMN |                                 |          |            |          |                 |          |      |          |
|                  |                    | UNF.TOT.           | AERUG.   | RESIDUE                         |          | ZINC       |          |                 |          |      |          |
|                  |                    | MG/L               | MF       | PARTIC.                         | TURB'ITY | UNF.TOT.   |          |                 |          |      |          |
|                  |                    | AS P               | CNT      | MG/L                            | FTU      | MG/L       |          |                 |          |      |          |
|                  |                    |                    | /100ML   |                                 |          | AS ZN      |          |                 |          |      |          |
| 870127           | 1045               | 39411              | 0.044    | 4<                              | 15.1     | 18.20      | 0.011    |                 |          |      |          |
| 870224           | 0955               | 39424              | 0.108    | 4<                              | 40.0     | 40.00      | 0.034    |                 |          |      |          |
| 870324           | 1145               | 39439              | 0.030    | 4<                              | 10.5     | 22.00      | 0.007    |                 |          |      |          |
| 870428           | 1130               | 39455              | 0.168    | 4<                              | 22.1     | 15.50      | 0.005    |                 |          |      |          |
| 870526           | 0920               | 39471              | 0.053    |                                 | 3.7      | 10.50      | 0.009    |                 |          |      |          |
| 870623           | 0945               | 39485              | 0.122    | 28                              | 33.0     | 35.00      | 0.010    |                 |          |      |          |
| 870728           | 0930               | 39498              | 0.130    | 24                              | 46.9     | 103.00     | 0.014    |                 |          |      |          |
| 870825           | 0900               | 39512              | 0.060    | 84                              | 10.4     | 11.80      | 0.005    |                 |          |      |          |
| 870929           | 0920               | 39526              | 0.061    | 12                              | 8.9      | 16.20      | 0.005    |                 |          |      |          |
| 871027           | 0940               | 39541              | 0.470    | 480C                            | 93.5     | 102.00     | 0.047    |                 |          |      |          |
| 871125           | 0915               | 39557              | 0.180    | 36                              | 46.5     | 36.00      | 0.022    |                 |          |      |          |
|                  |                    | MAXIMUM            | 0.470    | 480                             | 93.5     | 103.00     | 0.047    |                 |          |      |          |
|                  |                    | ARITH MEAN         | 0.130    | 111                             | 30.1     | 37.29      | 0.015    |                 |          |      |          |
|                  |                    | GEOM MEAN          | 0.096    |                                 | 20.8     | 27.42      | 0.011    |                 |          |      |          |
|                  |                    | MINIMUM            | 0.030    | 12                              | 3.7      | 10.50      | 0.005    |                 |          |      |          |
|                  |                    | STD DEV (GEOM *)   | 0.124    |                                 | 26.2     | 33.77      | 0.014    |                 |          |      |          |
| #                | SAMP IN STATISTICS | 11                 |          | 6                               | 11       | 11         | 11       |                 |          |      |          |
| %                | SAMP (EXCLUDED)    |                    |          | 40                              |          |            |          |                 |          |      |          |

## 1987 WATER QUALITY DATA REGION 1

287

B.O.W./ SITE: DUTTON DRAIN  
 SAMPLE POINT: CONC.RD.7 DUNWICH TWP.S-W OF DUTTON  
 STATION TYPE: RIVER

STATION ID: 16-0072-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TYRCONNELL CREEK

STORET CODE: 02  
 003  
 1860

LAT: 42 37 56.74 LONG: 081 29 24.99 U T M: 17 0459800.0 4719900.0 4 REGION: 01 DISTANCE: 8.851

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | TOTAL    | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | HOUR | NUMBER | M      | SUB-PROJ | AS CAC03 | AS O     | AS CL    | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  |        |        | CODE     |          |          |          |          |          |          |          |
| 870127               | 1145 | 39412  | 0.30   | 0101     | 287.0    | 0.83     |          | 975.0    | 0.003    | 5.0      | 1390     |
| 870224               | 1055 | 39425  | 0.30   | 0101     | 157.0    | 3.44     |          | 515.0    | 0.004    |          | 3700     |
| 870324               | 1235 | 39440  | 0.30   | 0101     | 180.0    | 2.35     |          | 765.0    | 0.005    |          | 10<      |
| 870428               | 1220 | 39456  | 0.30   | 0101     | 134.0    | 12.00    |          | 775.0    | 0.004    | 18.5     | 15000    |
| 870526               | 1030 | 39472  | 0.30   | 0101     | 144.0    | 2.98     |          | 600.0    | 0.005    | 7.5      | 600>     |
| 870623               | 1045 | 39486  | 0.30   | 0101     | 151.0    | 2.52     |          | 940.0    | 0.003    | 4.0      | 1900     |
| 870728               | 1015 | 39499  | 0.30   | 0101     | 185.0    | 5.71     |          | 790.0    | 0.004    | 4.0      | 190      |
| 870825               | 0945 | 39513  | 0.30   | 0101     | 150.0    | 1.84     |          | 1350.0   | 0.006    | 7.5      | 384      |
| 870929               | 1030 | 39527  | 0.30   | 0101     | 231.6    | 1.39     | 92.420   | 995.0    | 0.007    | 7.5      | 3200     |
| 871027               | 1130 | 39542  | 0.30   | 0101     | 112.2    | 7.28     | 51.150   | 635.0    | 0.015    | 10.0     | 17000    |
| 871110               | 0945 | 40948  | 0.30   | 0101     | 187.3    |          | 111.400  | 985.0    |          | 13.5     | 6200     |
| 871125               | 1015 | 39558  | 0.30   | 0101     | 117.8    | 4.28     | 47.140   | 605.0    | 0.007    | 10.5     | 2000AID  |
| 871215               | 1030 | 40960  | 0.30   | 0101     | 93.5     |          | 24.310   | 379.0    |          | 7.5      | 3000AID  |
| MAXIMUM              |      | 0.30   |        |          | 287.0    | 12.00    | 111.400  | 1350.0   | 0.015    | 18.5     | 17000    |
| ARITH MEAN           |      | 0.30   |        |          | 163.9    | 4.06     | 65.284   | 793.0    | 0.006    | 9.0      | 4906     |
| GEOM MEAN            |      |        |        |          | 157.0    | 3.12     | 57.034   | 754.2    | 0.005    | 8.1      |          |
| MINIMUM              |      | 0.30   |        |          | 93.5     | 0.83     | 24.310   | 379.0    | 0.003    | 4.0      | 190      |
| STD DEV (GEOM *)     |      |        |        |          | 52.0     | 3.25     | 35.605   | 256.6    | 0.003    | 4.3      |          |
| # SAMP IN STATISTICS |      | 13     |        |          | 13       | 11       | 5        | 13       | 11       | 12       | 11       |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          |          |          | 15       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
|                      |      | MF       |        |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| SAMPLE               | DATE | CNT      | STREAM | WATER  | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| YYMMDD               | HOUR | /100ML   | COND.  | TEMP   | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD               | LMT  |          |        | DEG.C  |          |          |          |          |          |      |          |
| 870127               | 1145 | 39412    | 20AID  | 4      | 1.0      | 0.090    | 0.020    | 6.700    | 0.003<   | 7.75 | 0.031    |
| 870224               | 1055 | 39425    | 600>   | 4      | 1.0      | 0.530    | 0.110    | 3.000    | 0.003<   | 7.83 | 0.154    |
| 870324               | 1235 | 39440    | 4<     | 6      | 8.0      | 0.018    | 0.020    | 4.100    | 0.003<   | 8.44 | 0.009    |
| 870428               | 1220 | 39456    | 60AID  | 5      | 11.0     | 4.000    | 0.860    | 1.000    | 0.003<   | 8.22 | 0.050    |
| 870526               | 1030 | 39472    | 600>   | 6      | 15.0     | 0.055    | 0.050    | 1.300    | 0.003<   | 7.80 | 0.016    |
| 870623               | 1045 | 39486    | 1900   | 6      | 21.0     | 0.180    | 0.100    | 0.300    | 0.003<   | 7.84 | 0.028    |
| 870728               | 1015 | 39499    | 400    | 6      | 20.0     | 0.105    | 0.010    | 0.100<   | 0.003<   | 7.90 | 0.008    |
| 870825               | 0945 | 39513    | 270    | 6      | 15.0     | 0.030    | 0.030    | 0.400    | 0.003<   | 7.77 | 0.024    |
| 870929               | 1030 | 39527    | 330    | 6      | 17.0     | 0.010    | 0.050    | 5.500    | 0.003<   | 7.96 | 0.021    |
| 871027               | 1130 | 39542    | 29000  | 6      | 9.0      | 0.119    | 0.080    | 17.200   | 0.005    | 7.81 | 0.308    |
| 871110               | 0945 | 40948    | 520    | 6 8    | 5.0      | 0.021    | 0.010<   | 2.500    |          | 7.92 | 0.057    |

( C O N T D )

B.O.W./ SITE: DUTTON DRAIN  
 SAMPLE POINT: CONC.RD.7 DUNWICH TWP.S-W OF DUTTON  
 STATION TYPE: RIVER

STATION ID: 16-0072-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TYRCONNELL CREEK

STORET CODE: 02  
 003  
 1860

LAT: 42 37 56.74 LONG: 081 29 24.99 U T M: 17 0459800.0 4719900.0 4 REGION: 01 DISTANCE: 8.851

| *=INTERIM TEST-NAME:     |             | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH     | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|--------------------------|-------------|--|---------------------------|----------------------------------|--|---|---|---|---|--------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                 |                           |                                  |  |   |   |   |   |        |   |
| 871125                   | 1015        | 39558  | 2100                      | 6                                | 5.0  | 0.015                                       | 0.100                                       | 13.900  | 2.250                                     | 0.003< | 7.86                                      |
| 871215                   | 1030        | 40960  | 28000                     | 3 6 8                            | 6.0  | 0.001<                                      | 0.020                                       | 6.600   | 15.000                                    |        | 7.41                                      |
| MAXIMUM                  |             | 29000  |                           |                                  | 21.0   | 4.000                                       | 0.860                                       | 17.200  | 15.000                                    | 0.005  | 8.44                                      |
| ARITH MEAN               |             | 6260   |                           |                                  | 10.3   | 0.431                                       | 0.121                                       | 5.208   | 3.043                                     | 0.005  | 7.89                                      |
| GEOM MEAN                |             |  |                           |                                  | 7.4  |   |   |   | 1.905                                     |        | 7.88                                      |
| MINIMUM                  |             | 20   |                           |                                  | 1.0  | 0.010                                       | 0.010                                       | 0.300   | 0.900                                     | 0.005  | 7.41                                      |
| STD DEV (GEOM *)         |             |  |                           |                                  | 6.8  |   |   |   | 4.053                                     |        | 0.24                                      |
| # SAMP IN STATISTICS     |             | 10   |                           |                                  | 13   | 12  | 12  | 12  | 13  | 1      | 13  |
| % SAMP (EXCLUDED)        |             | 23   |                           |                                  |  | 7   | 7   | 7   |   | 90     |   |

| *=INTERIM TEST-NAME:     |             | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|--|--|-----------------------------------|-------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                             |  |                                   |                         |   |
| 870127                   | 1145        | 39412  | 0.102  | 8                                 | 15.1                    | 19.40                                     |
| 870224                   | 1055        | 39425  | 0.870  | 12                                | 21.6                    | 48.00                                     |
| 870324                   | 1235        | 39440  | 0.028  | 4<                                | 11.9                    | 6.10                                      |
| 870428                   | 1220        | 39456  | 0.305  | 40                                | 24.6                    | 20.00                                     |
| 870526                   | 1030        | 39472  | 0.226  |                                   | 26.8                    | 45.00                                     |
| 870623                   | 1045        | 39486  | 0.090  | 4<                                | 27.6                    | 37.00                                     |
| 870728                   | 1015        | 39499  | 0.202  | 4<                                | 47.7                    | 112.00                                    |
| 870825                   | 0945        | 39513  | 0.070  | 4<                                | 20.0                    | 28.00                                     |
| 870929                   | 1030        | 39527  | 0.077  | 16                                | 37.8                    | 51.00                                     |
| 871027                   | 1130        | 39542  | 0.660  |                                   | 210.5                   | 305.00                                    |
| 871110                   | 0945        | 40948  | 0.132  | 16                                | 42.2                    | 47.00                                     |
| 871125                   | 1015        | 39558  | 0.385  | 70AID                             | 102.0                   | 146.00                                    |
| 871215                   | 1030        | 40960  | 0.900  | 10C                               | 2073.2                  |   |
| MAXIMUM                  |             | 0.900  | 70   | 2073.2                            | 305.00                  | 0.057                                     |
| ARITH MEAN               |             | 0.311  | 25   | 204.7                             | 72.04                   | 0.017                                     |
| GEOM MEAN                |             | 0.193  |  | 46.5                              | 44.68                   | 0.012                                     |
| MINIMUM                  |             | 0.028  | 8  | 11.9                              | 6.10                    | 0.005                                     |
| STD DEV (GEOM *)         |             | 0.306  |  | 564.0                             | 83.51                   | 0.016                                     |
| # SAMP IN STATISTICS     |             | 13   |  | 13                                | 12                      | 11  |
| % SAMP (EXCLUDED)        |             |  | 36   |                                   |                         |   |



## 1987 WATER QUALITY DATA REGION 1

289

B.O.W./ SITE: DODD CREEK  
 SAMPLE POINT: FIRST CONCESSION NORTH OF HIGHWAY 3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC104

STATION ID: 16-0087-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 59.87 LONG: 081 16 40.70

U T M: 17 0477275.0 4740275.0 4

REGION: 01

DISTANCE: 36.370

| *=INTERIM TEST-NAME: |      |       | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COD      | COND25   | CRUT     | CUUT     |
|----------------------|------|-------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |       |                      |        | ALK      | BOD      |          |          |          |          |          |          |
|                      |      |       |                      |        | TOTAL    | 5 DAY    | CHLORIDE | CHLORIDE | CHEM. OX | CONDUCT. | CHROMIUM | COPPER   |
|                      |      |       |                      |        | MG/L     | TOT.DEM. | UNF.REAC | UNF.REAC | DEMAND   | 25C      | UNF.TOT. | UNF.TOT. |
|                      |      |       |                      |        | AS CAC03 | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     |
|                      |      |       |                      |        |          | AS O     | AS CL    | AS CL-   | AS O     | AT 25 C  | AS CR    | AS CU    |
| SAMPLE               | DATE | YMMDD | TIME                 | NUMBER | DEPTH    | M        | SUB-PROJ | CODE     |          |          |          |          |
| 870128               | 0945 |       |                      | 37209  | 0.30     |          | 0101     |          |          |          |          |          |
| 870323               | 1315 |       |                      | 37218  | 0.30     |          | 0101     |          |          |          |          |          |
| 870427               | 1255 |       |                      | 37228  | 0.30     |          | 0101     |          |          |          |          |          |
| 870519               | 1255 |       |                      | 37238  | 0.30     |          | 0101     |          |          |          |          |          |
| 870624               | 1250 |       |                      | 37248  | 0.30     |          | 0101     |          |          |          |          |          |
| 870728               | 1250 |       |                      | 37258  | 0.30     |          | 0101     |          |          |          |          |          |
| 870817               | 1620 |       |                      | 37268  | 0.30     |          | 0101     |          |          |          |          |          |
| 870921               | 0200 |       |                      | 37278  | 0.30     |          | 0101     |          |          |          |          |          |
| 871028               | 0210 |       |                      | 37288  | 0.30     |          | 0101     |          |          |          |          |          |
| 871124               | 1345 |       |                      | 37298  | 0.30     |          | 0101     |          |          |          |          |          |
|                      |      |       | MAXIMUM              | 0.30   |          |          |          |          |          |          |          |          |
|                      |      |       | ARITH MEAN           | 0.30   |          |          |          |          |          |          |          |          |
|                      |      |       | GEOM MEAN            |        |          |          |          |          |          |          |          |          |
|                      |      |       | MINIMUM              | 0.30   |          |          |          |          |          |          |          |          |
|                      |      |       | STD DEV (GEOM *)     |        |          |          |          |          |          |          |          |          |
|                      |      |       | * SAMP IN STATISTICS | 10     |          |          |          |          |          |          |          |          |
|                      |      |       | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |
|                      |      |       |                      |        |          |          |          |          |          |          |          |          |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

290

B.O.W./ SITE: DODD CREEK  
 SAMPLE POINT: FIRST CONCESSION NORTH OF HIGHWAY 3  
 STATION TYPE: RIVER FLOW GAUGE MOE 026C104

STATION ID: 16-0087-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 59.87 LONG: 081 16 40.70

U T M: 17 0477275.0 4740275.0 4

REGION: 01

DISTANCE: 36.370

| *=INTERIM TEST-NAME: |             | DO                                 | FCMF<br>FECAL<br>COLIFORM | FEUT<br>IRON              | FSMF<br>FECAL<br>STREPCUS | FWSTRC          | FWTEMP                 | NIUT<br>NICKEL            | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NN03UR<br>NO3-N          |
|----------------------|-------------|------------------------------------|---------------------------|---------------------------|---------------------------|-----------------|------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | DISOLVED<br>OXYGEN<br>MG/L<br>AS O | MF<br>CNT<br>/100ML       | UNF.TOT.<br>MG/L<br>AS FE | MF<br>CNT<br>/100ML       | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.TOT.<br>MG/L<br>AS NI | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N |
|                      |             | MAXIMUM                            | 10.5                      | 7800                      | 2.300                     |                 | 28.0                   | 0.045                     | 0.275                    | 0.080                    | 4.700                    |
|                      |             | ARITH MEAN                         | 9.2                       | 2543                      | 1.113                     |                 | 15.0                   | 0.027                     | 0.107                    | 0.048                    | 1.910                    |
|                      |             | GEOM MEAN                          | 9.1                       |                           | 0.854                     |                 | 9.2                    | 0.026                     |                          | 0.041                    | 1.756                    |
|                      |             | MINIMUM                            | 7.5                       | 200                       | 0.250                     |                 | 0.1                    | 0.013                     | 0.020                    | 0.010                    | 1.200                    |
|                      |             | STD DEV (GEOM *)                   | 1.1                       |                           | 0.745                     |                 | 8.8                    | 0.010                     |                          | 0.024                    | 1.021                    |
|                      |             | # SAMP IN STATISTICS               | 10                        | 7                         | 9                         |                 | 10                     | 9                         | 8                        | 10                       | 10                       |
|                      |             | % SAMP (EXCLUDED)                  |                           | 12                        |                           |                 |                        |                           | 20                       |                          |                          |

| *=INTERIM TEST-NAME: |             | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD              | PH    | PP04UR<br>PO4            | PPUT<br>PHOSPHOR         | PSAMF<br>PSEUDOMN<br>AERUG. | RSP<br>RESIDUE<br>PARTIC. | ZNUT<br>ZINC              |
|----------------------|-------------|-----------------------------|---------------------------|-------|--------------------------|--------------------------|-----------------------------|---------------------------|---------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH    | UNF.REAC<br>MG/L<br>AS P | UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML         | MG/L                      | UNF.TOT.<br>MG/L<br>AS ZN |
| 870128               | 0945        | 37209                       | 0.750                     | 0.019 | 7.82                     | 1.450                    | 1.750                       | 11.3                      | 0.082                     |
| 870323               | 1315        | 37218                       | 0.850                     | 0.013 | 8.56                     | 0.500                    | 0.655                       | 4<                        | 11.2                      |
| 870427               | 1255        | 37228                       | 1.150                     | 0.007 | 8.26                     | 0.051                    | 0.165                       | 4<                        | 11.1                      |
| 870519               | 1255        | 37238                       | 1.350                     | 0.011 | 8.00                     | 1.230                    | 1.230                       | 4<                        | 29.3                      |
| 870624               | 1250        | 37248                       | 1.250                     | 0.016 | 7.93                     | 0.356                    | 0.555                       | 4                         | 51.1                      |
| 870728               | 1250        | 37258                       | 1.200                     | 0.007 | 8.21                     | 0.264                    | 0.310                       |                           | 15.8                      |
| 870817               | 1620        | 37268                       | 1.200                     | 0.014 | 8.10                     | 0.885                    | 0.980                       | 4                         | 133.2                     |
| 870921               | 0200        | 37278                       | 1.180                     | 0.015 | 7.78                     | 0.540                    | 0.740                       | 108                       | 108.4                     |
| 871028               | 0210        | 37288                       | 1.350                     |       | 7.98                     | 0.850                    | 0.550                       | 248C                      | 47.3                      |
| 871124               | 1345        | 37298                       | 1.100                     | 0.015 | 7.88                     | 0.118                    | 2.30                        | 3100                      | 48.5                      |
|                      |             | MAXIMUM                     | 1.350                     | 0.019 | 8.56                     | 1.450                    | 2.30                        | 3100                      | 133.2                     |
|                      |             | ARITH MEAN                  | 1.138                     | 0.013 | 8.05                     | 0.624                    | 0.92                        | 693                       | 46.7                      |
|                      |             | GEOM MEAN                   | 1.121                     | 0.012 | 8.05                     | 0.428                    | 0.72                        |                           | 31.9                      |
|                      |             | MINIMUM                     | 0.750                     | 0.007 | 7.78                     | 0.051                    | 0.165                       | 4                         | 11.1                      |
|                      |             | STD DEV (GEOM *)            | 0.196                     | 0.004 | 0.24                     | 0.469                    | 0.67                        |                           | 42.6                      |
|                      |             | # SAMP IN STATISTICS        | 10                        | 9     | 10                       | 10                       | 10                          | 5                         | 10                        |
|                      |             | % SAMP (EXCLUDED)           |                           |       |                          |                          |                             | 37                        | 9                         |

B.O.W./ SITE: BEAVER CREEK  
 SAMPLE POINT: AT POND OUTLET COMMUNITY OF UNION  
 STATION TYPE: RIVER

STATION ID: 16-0087-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 42 27.38 LONG: 081 11 52.12

U T M: 17 0483800.0 4728150.0 4

REGION: 01

DISTANCE: 7.403

| *=INTERIM TEST-NAME: |                      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | DO       | FCMF     | FSMF     | FWSTRC | FWTEMP |
|----------------------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
|                      |                      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | DISOLVED | FECAL    | FECAL    |        |        |
| SAMPLE               |                      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | OXYGEN   | COLIFORM | STREPCUS |        | WATER  |
| DATE                 | HOUR                 | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MG/L     | MF       | MF       | STREAM | TEMP   |
| YYMMDD               | LMT                  | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | AS O     | CNT      | CNT      | COND.  | DEG.C  |
|                      |                      |        |          |          |          |          |          | /100ML   | /100ML   |        |        |
| 870128               | 0910                 | 37207  | 0101     |          | 30.000   | 695.0    | 9.0      |          |          | 4      | 0.1    |
| 870323               |                      | 37216  | 0101     | 25.000   |          | 560.0    | 10.0     | 10<      | 10<      | 6      | 9.0    |
| 870427               | 1155                 | 37226  | 0101     |          | 28.500   | 575.0    | 10.5     | 100      | 80AID    | 6      | 13.0   |
| 870519               | 1150                 | 37236  | 0101     |          | 26.000   | 575.0    | 9.0      | 140      | 4<       | 6      | 16.0   |
| 870624               | 1155                 | 37246  | 0101     |          | 26.000   | 500.0    | 10.0     |          |          | 6      | 25.0   |
| 870728               | 1150                 | 37256  | 0101     |          | 25.000   | 388.0    | 10.0     | 3100     | 1220     | 6      | 20.0   |
| 870817               | 1425                 | 37266  | 0101     |          | 28.000   | 492.0    | 10.0     | 10<      | 36       | 6      | 22.0   |
| 870921               | 1150                 | 37276  | 0101     | 27.100   |          | 565.0    | 11.0     |          |          | 6      | 19.0   |
| 871028               | 1130                 | 37286  | 0101     | 26.040   |          | 600.0    | 10.0     |          |          | 6      | 8.0    |
| 871124               |                      | 37296  | 0101     | 30.880   |          | 550.0    |          | 300      | 510      |        |        |
|                      | MAXIMUM              | 0.30   |          | 30.880   | 30.000   | 695.0    | 11.0     | 3100     | 1220     |        | 25.0   |
|                      | ARITH MEAN           | 0.30   |          | 27.255   | 27.250   | 550.0    | 9.9      | 910      | 462      |        | 14.7   |
|                      | GEOM MEAN            |        |          | 27.168   | 27.196   | 544.5    | 9.9      |          |          |        | 8.8    |
|                      | MINIMUM              | 0.30   |          | 25.000   | 25.000   | 388.0    | 9.0      | 100      | 36       |        | 0.1    |
|                      | STD DEV (GEOM *)     |        |          | 2.564    | 1.891    | 79.7     | 0.6      |          |          |        | 7.9    |
|                      | * SAMP IN STATISTICS | 10     |          | 4        | 6        | 10       | 9        | 4        | 4        |        | 9      |
|                      | % SAMP (EXCLUDED)    |        |          |          |          |          |          | 33       | 33       |        |        |

| *=INTERIM TEST-NAME: |      | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PH   | PP04UR   | PPUT     | PSAMF    | RSP     |
|----------------------|------|----------|----------|----------|----------|------|----------|----------|----------|---------|
|                      |      | NH3-N    | NO2-N    | NO3-N    | K'DAHL N |      | PO4      | PHOSPHOR | PSEUDOMN |         |
|                      |      | TOTAL    |          |          | TOTAL    |      | UNF.REAC | UNF.TOT. | AERUG.   | RESIDUE |
| SAMPLE               |      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |      | MG/L     | MG/L     | MF       | PARTIC. |
| DATE                 | HOUR | MG/L     | MG/L     | MG/L     | MG/L     | PH   | AS P     | AS P     | CNT      | MG/L    |
| YYMMDD               | LMT  | AS N     | AS N     | AS N     | AS N     |      |          |          | /100ML   |         |
| 870128               | 0910 | 0.085    | 0.020    | 5.300    | 0.560    | 8.00 | 0.011    | 0.047    |          | 7.3     |
| 870323               |      | 0.035    | 0.020    | 3.500    | 0.510    | 8.50 | 0.005    | 0.034    | 4        | 8.0     |
| 870427               | 1155 | 0.085    | 0.100    | 2.400    | 0.990    | 8.00 | 0.012    | 0.114    | 4<       | 39.2    |
| 870519               | 1150 | 0.030    | 0.050    | 1.700    | 0.850    | 8.12 | 0.003    | 0.083    | 4<       | 25.2    |
| 870624               | 1155 | 0.040    | 0.370    | 1.000    | 1.130    | 8.18 | 0.048    | 0.099    |          | 30.8    |
| 870728               | 1150 | 0.005    | 0.010<   | 0.100<   | 1.420    | 8.35 | 0.006    | 0.142    | 8        | 26.3    |
| 870817               | 1425 | 0.005<   | 0.060    | 1.000    | 1.200    | 8.33 | 0.023    | 0.130    | 4<       | 20.3    |
| 870921               | 1150 | 0.130    | 0.060    | 1.300    | 1.170    | 7.89 | 0.028    | 0.085    |          | 15.8    |
| 871028               | 1130 | 0.005<   | 0.010    | 1.800    | 0.700    | 7.89 | 0.033    | 0.058    |          | 8.5     |
| 871124               |      | 0.015    | 0.010    | 1.700    | 0.720    | 7.78 | 0.054    | 0.136    | 4<       | 24.1    |

( C O N T D )

## 292

STORET CODE: 02  
003  
1660

| *INTERIM             |      | TEST-NAME: | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | PH    | PO4      | PHOSPHOR | PSAMF    | RSP     |
|----------------------|------|------------|----------|----------|----------|----------|-------|----------|----------|----------|---------|
|                      |      | TOTAL      | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC |       | UNF.REAC | UNF.TOT. | PSEUDOMN |         |
| SAMPLE               | DATE | MG/L       | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     | MG/L     | AERUG.   | RESIDUE |
| YMMDD                | LMT  | AS N       | AS N     | AS N     | AS N     | AS N     | PH    | AS P     | AS P     | CNT      | PARTIC. |
|                      |      |            |          |          |          |          |       |          |          | /100ML   | MG/L    |
|                      |      | 0.130      | 0.370    | 5.300    | 1.420    | 8.50     | 0.054 | 0.142    | 8        | 39.2     |         |
|                      |      | 0.053      | 0.078    | 2.189    | 0.925    | 8.10     | 0.022 | 0.093    | 6        | 20.5     |         |
|                      |      |            |          |          | 0.878    | 8.10     | 0.015 | 0.084    |          | 17.7     |         |
|                      |      | 0.005      | 0.010    | 1.000    | 0.510    | 7.78     | 0.003 | 0.034    | 4        | 7.3      |         |
| STD DEV (GEOM *)     |      |            |          |          | 0.304    | 0.23     | 0.018 | 0.038    |          | 10.7     |         |
| # SAMP IN STATISTICS |      | 8          | 9        | 9        | 10       | 10       | 10    | 10       | 10       | 2        | 10      |
| % SAMP (EXCLUDED)    |      | 20         | 10       | 10       |          |          |       |          |          | 66       |         |

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH WEST OF BELMONT  
 STATION TYPE: RIVER

STATION ID: 16-0087-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 52 27.59 LONG: 081 06 14.65 U T M: 17 0491500.0 4746650.0 4 REGION: 01 DISTANCE: 44.417

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               | DATE | DATE   | DEPTH  | PROJECT  | TOTAL    | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
| YYMMDD               | HOUR | NUMBER | M      | SUB-PROJ | MG/L     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | M      | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   | AS CU    | AS O     | /100ML   |
| 870128               | 1240 | 37202  | 0.30   | 0101     | 290.0    | 0.64     |          | 755.0    | 0.001    | 12.0     |          |
| 870323               | 0935 | 37211  | 0.30   | 0101     | 222.0    | 0.90     | 22.000   | 555.0    | 0.001    | 10.5     | 10<      |
| 870427               | 0945 | 37221  | 0.30   | 0101     | 245.0    | 3.07     |          | 610.0    | 0.005    | 10.0     | 600>     |
| 870519               | 0940 | 37231  | 0.30   | 0101     | 232.0    | 2.77     |          | 645.0    | 0.002    | 8.0      | 480      |
| 870624               | 1000 | 37241  | 0.30   | 0101     | 179.0    | 3.00     |          | 615.0    | 0.007    | 9.5      | 10500    |
| 870728               | 0900 | 37251  | 0.30   | 0101     | 233.0    | 4.22     |          | 560.0    | 0.004    | 9.5      | 3800     |
| 870818               | 0900 | 37261  | 0.30   | 0101     | 212.0    | 2.65     |          | 600.0    | 0.003    | 10.5     | 10300    |
| 870921               | 0945 | 37271  | 0.30   | 0101     | 236.4    | 1.46     | 29.610   | 565.0    | 0.006    | 9.0      | 1500     |
| 871028               | 0855 | 37281  | 0.30   | 0101     | 269.6    | 2.74     | 58.120   | 770.0    |          | 10.0     | 1200     |
| 871124               | 0850 | 37291  | 0.30   | 0101     | 258.5    | 3.31     | 52.820   | 730.0    |          | 10.0     | 10000    |
| MAXIMUM              |      | 0.30   |        |          | 290.0    | 4.22     | 58.120   | 770.0    | 0.007    | 12.0     | 10500    |
| ARITH MEAN           |      | 0.30   |        |          | 237.7    | 2.48     | 40.637   | 640.5    | 0.004    | 9.9      | 5397     |
| GEOM MEAN            |      |        |        |          | 235.9    | 2.16     | 37.605   | 635.9    | 0.003    | 9.8      |          |
| MINIMUM              |      | 0.30   |        |          | 179.0    | 0.64     | 22.000   | 555.0    | 0.001    | 8.0      | 480      |
| STD DEV (GEOM *)     |      |        |        |          | 31.0     | 1.13     | 17.541   | 82.1     | 0.002    | 1.0      |          |
| # SAMP IN STATISTICS |      | 10     |        |          | 10       | 10       | 4        | 10       | 8        | 10       | 7        |
| % SAMP (EXCLUDED)    |      |        |        |          |          |          |          |          |          |          | 22       |

| *=INTERIM TEST-NAME: |      | FWSADP   | FWSTRC | FWTEMP | NNHTUR | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|--------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N  | NO2-N    | NO3-N    | K'DAHL N | LEAD     |      | P04      |
|                      |      | STREPCUS |        |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
|                      |      | MF       |        |        | MG/L   | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| SAMPLE               | DATE | DATE     | STREAM | WATER  | AS N   | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD               | HOUR | NUMBER   | COND.  | TEMP   | AS N   | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD               | LMT  | NUMBER   | COND.  | DEG.C  | AS N   | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| 870128               | 1240 | 37202    | 4      | 0.1    | 0.040  | 0.010    | 6.200    | 0.650    | 0.003<   | 7.71 | 0.041    |
| 870323               | 0935 | 37211    | 6      | 8.0    | 0.010  | 0.020    | 3.500    | 0.640    | 0.003<   | 8.35 | 0.232    |
| 870427               | 0945 | 37221    | 6      | 14.0   | 0.625  | 0.130    | 2.800    | 1.820    | 0.003<   | 8.01 | 0.036    |
| 870519               | 0940 | 37231    | 6      | 16.0   | 0.235  | 0.070    | 1.800    | 1.420    | 0.003<   | 7.98 | 0.037    |
| 870624               | 1000 | 37241    | 6      | 25.0   | 0.010  | 0.050    | 17.900   | 2.350    | 0.003<   | 7.97 | 0.134    |
| 870728               | 0900 | 37251    | 6      | 28.0   | 0.025  | 0.010<   | 0.100<   | 1.140    | 0.005    | 8.07 | 0.004    |
| 870818               | 0900 | 37261    | 6      | 23.0   | 0.005< | 0.010    | 0.100    | 1.080    | 0.003<   | 7.99 | 0.020    |
| 870921               | 0945 | 37271    | 6      | 19.0   | 0.020  | 0.010    | 0.300    | 0.710    | 0.003    | 7.97 | 0.065    |
| 871028               | 0855 | 37281    | 6      | 8.0    | 0.799  | 0.180    | 2.300    | 2.320    |          | 7.77 | 0.199    |
| 871124               | 0850 | 37291    | 6      | 8.0    | 0.001< | 0.010    | 1.500    | 1.360    |          | 7.72 | 0.056    |

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH WEST OF BELMONT  
 STATION TYPE: RIVER

STATION ID: 16-0087-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 52 27.59 LONG: 081 06 14.65 U T M: 17 0491500.0 4746650.0 4 REGION: 01 DISTANCE: 44.417

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|------|---|
| MAXIMUM              |  | 5400   |                           | 28.0                             | 0.799  | 0.180                                       | 17.900                                      | 2.350   | 0.005                                     | 8.35 | 0.232                                     |
| ARITH MEAN           |  | 935  |                           | 14.9                             | 0.220  | 0.054                                       | 4.044                                       | 1.349   | 0.004                                     | 7.95 | 0.082                                     |
| GEOM MEAN            |  | 304  |                           | 9.0                              |  |   |   | 1.214   |   | 7.95 | 0.050                                     |
| MINIMUM              |  | 20   |                           | 0.1                              | 0.010  | 0.010                                       | 0.100                                       | 0.640   | 0.003                                     | 7.71 | 0.004                                     |
| STD DEV (GEOM *)     |  | 5*   |                           | 8.9                              |  |   |   | 0.640   |   | 0.19 | 0.079                                     |
| # SAMP IN STATISTICS |  | 9  |                           | 10                               | 8  | 9   | 9   | 10  | 2   | 10   | 10  |
| % SAMP (EXCLUDED)    |  |  |                           |                                  | 20   | 10  | 10  |   | 75  |      |   |

| *=INTERIM TEST-NAME: |      | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | TURB<br>TURB'ITY<br>FTU | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|------|--|--|-----------------------------------|-------------------------|---|
| 870128               | 1240 | 37202  | 0.086  | 8.6                               | 8.50                    | 0.005                                     |
| 870323               | 0935 | 37211  | 0.077  | 4< 17.1                           | 10.90                   | 0.007                                     |
| 870427               | 0945 | 37221  | 0.118  | 4< 12.8                           | 6.80                    | 0.170                                     |
| 870519               | 0940 | 37231  | 0.132  | 4 25.3                            | 13.80                   | 0.001                                     |
| 870624               | 1000 | 37241  | 0.330  | 56 107.3                          | 97.00                   | 0.019                                     |
| 870728               | 0900 | 37251  | 0.135  | 4< 22.7                           | 15.50                   | 0.010                                     |
| 870818               | 0900 | 37261  | 0.134  | 4< 28.4                           | 26.00                   | 0.011                                     |
| 870921               | 0945 | 37271  | 0.145  | 8 37.1                            | 38.00                   | 0.010                                     |
| 871028               | 0855 | 37281  | 0.320  | 76C 28.9                          | 19.50                   |   |
| 871124               | 0850 | 37291  | 0.274  | 8 115.4                           | 41.00                   |   |
| MAXIMUM              |      | 0.330  | 76   | 115.4                             | 97.00                   | 0.170                                     |
| ARITH MEAN           |      | 0.175  | 30   | 40.4                              | 27.70                   | 0.029                                     |
| GEOM MEAN            |      | 0.155  |  | 28.9                              | 20.02                   | 0.010                                     |
| MINIMUM              |      | 0.077  | 4  | 8.6                               | 6.80                    | 0.001                                     |
| STD DEV (GEOM *)     |      | 0.095  |  | 38.4                              | 27.05                   | 0.057                                     |
| # SAMP IN STATISTICS |      | 10   | 5  | 10                                | 10                      | 8   |
| % SAMP (EXCLUDED)    |      |  | 44   |                                   |                         |   |

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST BRIDGE ABOVE PORT STANLEY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC111

STATION ID: 16-0087-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 41 33.75 LONG: 081 13 03.37

U T M: 17 0482175.0 4726500.0 4

REGION: 01

DISTANCE: 4.828

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ   | ALKT     | CDUT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |          | ALK      | CADMIUM  | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
| SAMPLE               |      | SAMPLE               | PROJECT  | TOTAL    | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |
| DATE                 | HR   | DEPTH                | SUB-PROJ | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
| YYMMDD               | LMT  | NUMBER               | CODE     | AS CAC03 | AS CD    | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
|                      |      | M                    |          |          |          |          |          |          |          |          | /100ML   |
| 870128               |      | 37206                | 0101     | 318.0    |          |          | 38.500   | 745.0    | 0.004    | 6.5      |          |
| 870323               | 1150 | 37215                | 0101     | 208.0    |          | 39.000   |          | 630.0    | 0.002    | 8.0      | 380      |
| 870427               | 1130 | 37225                | 0101     | 213.0    |          |          | 50.500   | 660.0    | 0.005    | 9.0      | 7400     |
| 870519               | 1115 | 37235                | 0101     | 187.0    |          |          | 58.500   | 695.0    | 0.003    | 10.0     | 1000     |
| 870624               | 1140 | 37245                | 0101     | 188.0    |          |          | 44.000   | 550.0    | 0.007    | 11.5     | 3500     |
| 870728               | 1120 | 37255                | 0101     | 146.0    | 0.0002<  |          | 59.000   | 550.0    | 0.004    | 10.0     | 100      |
| 870817               | 1350 | 37265                | 0101     | 158.0    |          |          | 62.500   | 605.0    | 0.004    | 9.5      | 100      |
| 870921               | 1130 | 37275                | 0101     | 141.5    |          | 53.160   |          | 555.0    | 0.009    | 9.5      | 4900     |
| 871028               | 1055 | 37285                | 0101     | 151.5    |          | 51.730   |          | 575.0    |          | 8.0      |          |
| 871124               | 1120 | 37295                | 0101     | 189.1    |          | 119.400  |          | 845.0    | 0.004    | 9.0      | 2500     |
|                      |      | MAXIMUM              | 0.30     | 318.0    |          | 119.400  | 62.500   | 845.0    | 0.009    | 11.5     | 7400     |
|                      |      | ARITH MEAN           | 0.30     | 190.0    |          | 65.822   | 52.167   | 641.0    | 0.005    | 9.1      | 2485     |
|                      |      | GEOM MEAN            |          | 184.7    |          | 59.820   | 51.406   | 634.8    | 0.004    | 9.0      | 1024     |
|                      |      | MINIMUM              | 0.30     | 141.5    |          | 39.000   | 38.500   | 550.0    | 0.002    | 6.5      | 100      |
|                      |      | STD DEV (GEOM *)     |          | 51.7     |          | 36.281   | 9.485    | 97.4     | 0.002    | 1.4      | 6*       |
|                      |      | # SAMP IN STATISTICS | 10       | 10       |          | 4        | 6        | 10       | 9        | 10       | 8        |
|                      |      | % SAMP (EXCLUDED)    |          |          |          |          |          |          |          |          |          |

| *=INTERIM TEST-NAME: |      | FMSF     | FWSTRC   | FWTEMP | NNHTUR | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|----------|--------|--------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |          |        | NH3-N  | NO2-N    | NO3-N    | K'DAHL N | LEAD     |      | PO4      |
|                      |      | STREPCUS |          |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
|                      |      | MF       |          | WATER  | MG/L   | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| SAMPLE               |      | CNT      | STREAM   | TEMP   | AS N   | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| DATE                 | HR   | /100ML   | COND.    | DEG.C  |        |          |          |          |          |      |          |
| YYMMDD               | LMT  | NUMBER   |          |        |        |          |          |          |          |      |          |
| 870128               |      | 37206    | 4        | 0.1    | 0.010  | 0.020    | 1.300    | 0.540    | 0.004    | 7.54 | 0.010    |
| 870323               | 1150 | 37215    | 20AID 6  | 9.0    | 0.005< | 0.030    | 4.300    | 0.670    | 0.003<   | 8.49 | 0.054    |
| 870427               | 1130 | 37225    | 330 6    | 13.0   | 0.035  | 0.110    | 4.000    | 0.950    | 0.003<   | 8.13 | 0.036    |
| 870519               | 1115 | 37235    | 16 6     | 16.0   | 0.005< | 0.090    | 4.000    | 1.680    | 0.003<   | 8.42 | 0.029    |
| 870624               | 1140 | 37245    | 540 6    | 25.0   | 0.005< | 0.010    | 2.600    | 1.260    | 0.006    | 8.18 | 0.220    |
| 870728               | 1120 | 37255    | 50AID 6  | 28.0   | 0.005< | 0.070    | 4.900    | 1.360    | 0.003<   | 8.80 | 0.275    |
| 870817               | 1350 | 37265    | 24 6     | 22.0   | 0.005  | 0.050    | 4.300    | 1.550    | 0.003<   | 9.00 | 0.145    |
| 870921               | 1130 | 37275    | 700 6    | 19.0   | 0.020  | 0.270    | 5.200    | 0.540    | 0.009    | 7.88 | 0.308    |
| 871028               | 1055 | 37285    | 6 6      | 8.0    | 0.061  | 0.030    | 2.700    | 1.240    |          | 7.97 | 0.246    |
| 871124               | 1120 | 37295    | 800AID 6 | 8.0    | 0.014  | 0.020    | 2.700    | 1.100    | 0.004    | 7.86 | 0.131    |

( C O N T D )

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST BRIDGE ABOVE PORT STANLEY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC111

STATION ID: 16-0087-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 41 33.75 LONG: 081 13 03.37 U T M: 17 0482175.0 4726500.0 4 REGION: 01 DISTANCE: 4.828

| *=INTERIM TEST-NAME: |  | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P |
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|
|----------------------|--|--|---------------------------|----------------------------------|--|---|---|---|---|----|---|

|                      |     |      |       |       |       |       |       |      |       |
|----------------------|-----|------|-------|-------|-------|-------|-------|------|-------|
| MAXIMUM              | 800 | 28.0 | 0.061 | 0.270 | 5.200 | 1.680 | 0.009 | 9.00 | 0.308 |
| ARITH MEAN           | 310 | 14.8 | 0.024 | 0.070 | 3.600 | 1.089 | 0.006 | 8.23 | 0.145 |
| GEOM MEAN            | 118 | 9.0  | 0.045 | 3.364 | 1.012 | 8.22  | 0.093 |      |       |
| MINIMUM              | 16  | 0.1  | 0.005 | 0.010 | 1.300 | 0.540 | 0.004 | 7.54 | 0.010 |
| STD DEV (GEOM *)     | 6*  | 8.8  | 0.078 | 1.223 | 0.406 | 0.45  | 0.111 |      |       |
| # SAMP IN STATISTICS | 8   | 10   | 6     | 10    | 10    | 10    | 4     | 10   | 10    |
| % SAMP (EXCLUDED)    |     |      | 40    |       |       |       | 55    |      |       |

| *=INTERIM TEST-NAME: |  | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | P1PCBT<br>PCB<br>TOTAL<br>NG/L | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|----------------------|--|--|--|--------------------------------|------------------------------------|-----------------------------------|---|
|----------------------|--|--|--|--------------------------------|------------------------------------|-----------------------------------|---|

|        |       |       |       |      |       |       |       |
|--------|-------|-------|-------|------|-------|-------|-------|
| 870128 | 37206 | 0.102 |       |      | 542.9 | 233.1 | 0.028 |
| 870323 | 1150  | 37215 | 0.124 | 4<   | 370.6 | 21.4  | 0.014 |
| 870427 | 1130  | 37225 | 0.140 | 28   | 394.9 | 31.1  | 0.015 |
| 870519 | 1115  | 37235 | 0.258 | 4    | 400.5 | 49.5  | 0.020 |
| 870624 | 1140  | 37245 | 0.336 | 72   | 359.9 | 92.1  | 0.019 |
| 870728 | 1120  | 37255 | 0.354 | 4<   | 401.6 | 26.4  | 0.008 |
| 870817 | 1350  | 37265 | 0.345 | 4    | 433.3 | 32.7  | 0.007 |
| 870921 | 1130  | 37275 | 0.460 | 160  | 350.6 | 105.4 | 0.030 |
| 871028 | 1055  | 37285 | 0.340 | 20<W | 372.6 | 59.4  |       |
| 871124 | 1120  | 37295 | 0.380 | 16   | 583.4 | 58.6  | 0.020 |

|                      |       |     |      |       |       |       |
|----------------------|-------|-----|------|-------|-------|-------|
| MAXIMUM              | 0.460 | 160 | 20   | 583.4 | 233.1 | 0.030 |
| ARITH MEAN           | 0.284 | 47  | 20<A | 421.0 | 71.0  | 0.018 |
| GEOM MEAN            | 0.254 |     | 20<A | 415.1 | 54.3  | 0.016 |
| MINIMUM              | 0.102 | 4   | 20   | 350.6 | 21.4  | 0.007 |
| STD DEV (GEOM *)     | 0.122 |     | 0<A  | 79.2  | 63.4  | 0.008 |
| # SAMP IN STATISTICS | 10    | 6   | 3    | 10    | 10    | 9     |
| % SAMP (EXCLUDED)    |       | 25  |      |       |       |       |



## 1987 WATER QUALITY DATA REGION 1

297

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD 45  
 STATION TYPE: RIVER

STATION ID: 16-0087-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 44 11.02 LONG: 081 12 47.42 U T M: 17 0482550.0 4731350.0 4 REGION: 01 DISTANCE: 17.059

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |        |          |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |        |          |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
| SAMPLE               |      | SAMPLE | PROJECT  | ALK      | TOT.DEM. | UNF.REAC | UNF.REAC | UMHO/CM  | MG/L     | MG/L     | CNT      |
| DATE                 | HOUR | DEPTH  | SUB-PROJ | TOTAL    | MG/L     | MG/L     | MG/L     | AT 25 C  | AS CU    | AS O     | /100ML   |
| YYMMDD               | LMT  | NUMBER | CODE     | AS CAC03 | AS O     | AS CL    | AS CL-   |          |          |          |          |
| 870128               | 0925 | 37208  | 0101     | 252.0    | 6.76     |          | 53.500   | 780.0    | 0.003    | 8.5      |          |
| 870323               | 1245 | 37217  | 0101     | 205.0    | 2.91     | 39.500   |          | 615.0    | 0.002    | 9.0      | 300      |
| 870427               | 1220 | 37227  | 0101     | 197.0    | 3.31     |          | 50.000   | 625.0    | 0.005    | 9.0      | 1500>    |
| 870519               | 1230 | 37237  | 0101     | 157.0    | 5.56     |          | 62.500   | 690.0    | 0.004    | 10.5     |          |
| 870624               | 1225 | 37247  | 0101     | 199.0    | 3.80     |          | 38.500   | 530.0    | 0.005    | 9.0      | 4600     |
| 870728               | 1220 | 37257  | 0101     | 133.0    | 2.00     |          | 58.000   | 610.0    | 0.004    | 9.5      | 1000     |
| 870817               | 1530 | 37267  | 0101     | 143.0    | 2.14     |          | 70.000   | 635.0    | 0.004    | 8.5      | 200      |
| 870921               | 0130 | 37277  | 0101     | 121.5    | 5.72     | 48.160   |          | 510.0    | 0.010    | 10.0     | 2500     |
| 871028               | 1220 | 37287  | 0101     | 162.9    | 3.58     | 60.870   |          | 630.0    |          | 18.0     | 6500     |
| 871124               | 1235 | 37297  | 0101     | 170.3    | 5.46     | 102.400  |          | 780.0    | 0.006    | 9.5      | 6600     |
| MAXIMUM              |      | 0.30   |          | 252.0    | 6.76     | 102.400  | 70.000   | 780.0    | 0.010    | 18.0     | 6600     |
| ARITH MEAN           |      | 0.30   |          | 174.1    | 4.12     | 62.732   | 55.417   | 640.5    | 0.005    | 10.1     | 3100     |
| GEOM MEAN            |      |        |          | 170.2    | 3.82     | 58.681   | 54.475   | 634.9    | 0.004    | 9.9      |          |
| MINIMUM              |      | 0.30   |          | 121.5    | 2.00     | 39.500   | 38.500   | 510.0    | 0.002    | 8.5      | 200      |
| STD DEV (GEOM *)     |      |        |          | 39.5     | 1.64     | 27.863   | 10.851   | 89.8     | 0.002    | 2.8      |          |
| # SAMP IN STATISTICS |      | 10     |          | 10       | 10       | 4        | 6        | 10       | 9        | 10       | 7        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          |          |          | 12       |

| *=INTERIM TEST-NAME: |      | FMSF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | PO4      |
|                      |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| SAMPLE               |      | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
| DATE                 | HOUR | NUMBER   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| YYMMDD               | LMT  |          |        |        |          |          |          |          |          |      |          |
| 870128               | 0925 | 37208    | 4      | 0.1    | 1.200    | 0.290    | 6.700    | 2.000    | 0.004    | 7.88 | 0.160    |
| 870323               | 1245 | 37217    | 6      | 9.0    | 0.005<   | 0.040    | 3.900    | 0.880    | 0.003<   | 8.45 | 0.050    |
| 870427               | 1220 | 37227    | 6      | 13.0   | 0.020    | 0.180    | 3.600    | 1.050    | 0.003<   | 8.07 | 0.067    |
| 870519               | 1230 | 37237    | 6      | 16.0   | 0.095    | 0.120    | 5.000    | 1.650    | 0.007    | 7.94 | 0.118    |
| 870624               | 1225 | 37247    | 6      | 24.0   | 0.005<   | 0.010    | 2.100    | 1.240    | 0.009    | 8.08 | 0.190    |
| 870728               | 1220 | 37257    | 6      | 28.0   | 0.045    | 0.080    | 7.800    | 1.100    | 0.006    | 8.28 | 0.328    |
| 870817               | 1530 | 37267    | 6      | 23.0   | 0.015    | 0.080    | 5.600    | 1.080    | 0.003    | 8.37 | 0.478    |
| 870921               | 0130 | 37277    | 6      | 9.0    | 0.370    | 0.110    | 3.600    | 1.640    | 0.007    | 7.71 | 0.289    |
| 871028               | 1220 | 37287    | 6      | 8.5    | 0.032    | 0.020    | 3.800    | 1.460    |          | 7.98 | 0.276    |
| 871124               | 1235 | 37297    | 6      | 9.0    | 0.090    | 0.030    | 4.000    | 1.180    | 0.008    | 7.84 | 0.184    |

( C O N T D )

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD 45  
 STATION TYPE: RIVER

STATION ID: 16-0087-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 44 11.02 LONG: 081 12 47.42 U T M: 17 0482550.0 4731350.0 4 REGION: 01 DISTANCE: 17.059

| *=INTERIM TEST-NAME: |             | FSMF<br>FECAL<br>STREPCUS | FWSTRC        | FWTEMP          | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD             | PH                        | PP04UR<br>P04<br>UNF.REAC |
|----------------------|-------------|---------------------------|---------------|-----------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER          | CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C   | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | UNF.REAC<br>MG/L<br>AS P  |
|                      |             | MAXIMUM                   | 3600          |                 | 28.0                     | 1.200                    | 0.290                    | 7.800                       | 2.000                    | 0.009                     | 0.478                     |
|                      |             | ARITH MEAN                | 894           |                 | 14.0                     | 0.233                    | 0.096                    | 4.610                       | 1.328                    | 0.006                     | 0.214                     |
|                      |             | GEOM MEAN                 |               |                 | 8.5                      |                          | 0.063                    | 4.338                       | 1.289                    |                           | 0.175                     |
|                      |             | MINIMUM                   | 28            |                 | 0.1                      | 0.015                    | 0.010                    | 2.100                       | 0.880                    | 0.003                     | 0.050                     |
|                      |             | STD DEV (GEOM *)          |               |                 | 8.7                      |                          | 0.086                    | 1.685                       | 0.348                    |                           | 0.131                     |
|                      |             | # SAMP IN STATISTICS      | 7             |                 | 10                       | 8                        | 10                       | 10                          | 10                       | 7                         | 10                        |
|                      |             | % SAMP (EXCLUDED)         | 12            |                 |                          | 20                       |                          |                             |                          | 22                        |                           |

| *=INTERIM TEST-NAME: |             | PPUT<br>PHOSPHOR     | PSAMF<br>PSEUDOMN<br>AERUG. | RSP                        | TURB            | ZNUT<br>ZINC              |
|----------------------|-------------|----------------------|-----------------------------|----------------------------|-----------------|---------------------------|
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER     | UNF.TOT.<br>MG/L<br>AS P    | RESIDUE<br>PARTIC.<br>MG/L | TURB'ITY<br>FTU | UNF.TOT.<br>MG/L<br>AS ZN |
| 870128               | 0925        | 37208                | 0.225                       | 9.4                        | 9.30            | 0.027                     |
| 870323               | 1245        | 37217                | 0.166                       | 4                          | 13.6            | 0.013                     |
| 870427               | 1220        | 37227                | 0.205                       | 12                         | 69.1            | 0.025                     |
| 870519               | 1230        | 37237                | 0.295                       |                            | 61.6            | 0.030                     |
| 870624               | 1225        | 37247                | 0.286                       | 36                         | 48.0            | 0.020                     |
| 870728               | 1220        | 37257                | 0.390                       | 12                         | 26.5            | 0.011                     |
| 870817               | 1530        | 37267                | 0.510                       | 4                          | 22.8            | 0.014                     |
| 870921               | 0130        | 37277                | 0.460                       |                            | 54.3            | 0.039                     |
| 871028               | 1220        | 37287                | 0.460                       | 44C                        | 57.2            | 0.051                     |
| 871124               | 1235        | 37297                | 0.364                       | 44C                        | 49.2            |                           |
|                      |             | MAXIMUM              | 0.510                       | 44                         | 69.1            | 0.051                     |
|                      |             | ARITH MEAN           | 0.336                       | 22                         | 41.2            | 0.026                     |
|                      |             | GEOM MEAN            | 0.316                       | 15                         | 34.5            | 0.023                     |
|                      |             | MINIMUM              | 0.166                       | 4                          | 9.4             | 0.011                     |
|                      |             | STD DEV (GEOM *)     | 0.119                       | 3*                         | 21.2            | 0.013                     |
|                      |             | # SAMP IN STATISTICS | 10                          | 7                          | 10              | 9                         |
|                      |             | % SAMP (EXCLUDED)    |                             |                            |                 |                           |

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT COUNTY ROAD NO 31 NORTH OF ST THOMAS  
 STATION TYPE: RIVER

STATION ID: 16-0087-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 41.98 LONG: 081 10 16.44

U T M: 17 0486000.0 4739700.0 4

REGION: 01

DISTANCE: 29.933

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     | FSMF     | FWSTRC |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
|                      |      |        |          | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    | FECAL    |        |
| SAMPLE               |      | SAMPLE | PROJECT  | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM | STREPCUS |        |
| DATE                 | HR   | DEPTH  | SUB-PROJ | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      | CNT      | STREAM |
| YYMMDD               | LMT  | M      | CODE     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   | /100ML   | COND.  |
| 870128               | 1210 | 37201  | 0101     |          | 32.500   | 685.0    |          | 12.5     |          |          | 4      |
| 870323               | 0910 | 37210  | 0101     | 22.000   |          | 560.0    |          | 10.0     | 30AID    | 10AID    | 6      |
| 870427               | 0925 | 37220  | 0101     |          | 34.500   | 585.0    |          | 9.0      |          |          | 6      |
| 870519               | 1315 | 37230  | 0101     |          | 24.000   | 560.0    |          | 11.0     | 20       | 4        | 6      |
| 870624               | 0930 | 37240  | 0101     |          | 30.000   | 565.0    |          | 10.0     | 20300>   | 1400     | 6      |
| 870728               | 1335 | 37250  | 0101     |          | 21.500   | 436.0    |          | 10.5     | 100AID   | 100<     | 6      |
| 870818               | 1050 | 37260  | 0101     |          | 26.500   | 401.0    | 0.003    | 9.0      | 200AID   | 20AID    | 6      |
| 870921               | 0930 | 37270  | 0101     | 17.800   |          | 500.0    |          | 10.5     | 140      | 156      | 6      |
| 871028               | 0830 | 37280  | 0101     | 1.870    |          | 605.0    |          | 10.5     |          |          | 6      |
| 871124               | 1350 | 37290  | 0101     | 49.900   |          | 665.0    | 0.002    | 10.0     | 230      | 210      | 6      |
| MAXIMUM              |      | 0.30   |          | 49.900   | 34.500   | 685.0    | 0.003    | 12.5     | 230      | 1400     |        |
| ARITH MEAN           |      | 0.30   |          | 22.892   | 28.167   | 556.2    | 0.002    | 10.3     | 120      | 300      |        |
| GEOM MEAN            |      |        |          | 13.826   | 27.783   | 549.2    | 0.002    | 10.3     |          |          |        |
| MINIMUM              |      | 0.30   |          | 1.870    | 21.500   | 401.0    | 0.002    | 9.0      | 20       | 4        |        |
| STD DEV (GEOM *)     |      |        |          | 19.984   | 5.037    | 90.3     | 0.001    | 1.0      |          |          |        |
| # SAMP IN STATISTICS |      | 10     |          | 4        | 6        | 10       | 2        | 10       | 6        | 6        |        |
| % SAMP (EXCLUDED)    |      |        |          |          |          |          |          |          | 14       | 14       |        |

| *=INTERIM TEST-NAME: |      | FWTEMP | NNHTUR | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH     | PP04UR   | PPUT     | PSAMF    |
|----------------------|------|--------|--------|----------|----------|----------|----------|--------|----------|----------|----------|
|                      |      |        | NH3-N  | NO2-N    | NO3-N    | K'DAHL N | LEAD     |        | P04      | PHOSPHOR | PSEUDOMN |
|                      |      |        | TOTAL  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |        | UNF.REAC | UNF.TOT. | AERUG.   |
| SAMPLE               |      | WATER  | MG/L   | MG/L     | MG/L     | MG/L     | MG/L     |        | MG/L     | MG/L     | MF       |
| DATE                 | HR   | TEMP   | AS N   | AS N     | AS N     | AS N     | AS PB    | PH     | AS P     | AS P     | CNT      |
| YYMMDD               | LMT  | DEG.C  |        |          |          |          |          |        |          |          | /100ML   |
| 870128               | 1210 | 37201  | 0.1    | 0.120    | 0.010    | 5.900    | 0.700    |        | 0.036    | 0.064    |          |
| 870323               | 0910 | 37210  | 8.0    | 0.340    | 0.020    | 7.500    | 1.460    | 8.13   | 0.035    | 0.130    | 4<       |
| 870427               | 0925 | 37220  | 14.0   | 0.100    | 0.130    | 2.100    | 1.900    | 8.14   | 0.030    | 0.180    |          |
| 870519               | 1315 | 37230  | 16.0   | 0.055    | 0.030    | 0.500    | 0.850    | 8.01   | 0.007    | 0.120    | 4<       |
| 870624               | 0930 | 37240  | 25.0   | 1.600    | 0.440    | 16.700   | 5.200    | 7.64   | 0.133    | 0.510    | 108C     |
| 870728               | 1335 | 37250  | 28.0   | 0.270    | 0.040    | 0.200    | 1.250    | 7.98   | 0.013    | 0.160    | 4<       |
| 870818               | 1050 | 37260  | 23.0   | 0.230    | 0.040    | 0.100    | 1.800    | 0.003< | 0.022    | 0.170    | 4<       |
| 870921               | 0930 | 37270  | 20.0   | 0.090    | 0.020    | 0.400    | 0.800    | 7.86   | 0.023    | 0.072    | 4        |
| 871028               | 0830 | 37280  | 8.0    | 0.095    | 0.030    | 3.200    | 1.100    | 7.62   | 0.042    | 0.405    |          |
| 871124               | 1350 | 37290  | 8.0    | 0.004    | 0.010<   | 0.400    | 0.450    | 0.003  | 0.015    | 0.106    | 4<       |

( C O N T D )

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT COUNTY ROAD NO 31 NORTH OF ST THOMAS  
 STATION TYPE: RIVER

STATION ID: 16-0087-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 41.98 LONG: 081 10 16.44

U T M: 17 0486000.0 4739700.0 4

REGION: 01

DISTANCE: 29.933

| *=INTERIM TEST-NAME:     |             | FWTEMP                    | NNHTUR<br>NH3-N<br>TOTAL | NNO2UR<br>NO2-N          | NNO3UR<br>NO3-N          | NNTKUR<br>K'DAHL N<br>TOTAL | PBUT<br>LEAD              | PH    | PP04UR<br>P04<br>UNF.REAC | PPUT<br>PHOSPHOR<br>UNF.TOT. | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML |     |
|--------------------------|-------------|---------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|---------------------------|-------|---------------------------|------------------------------|--|-----|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N    | UNF.TOT.<br>MG/L<br>AS PB | PH    | MG/L<br>AS P              | MG/L<br>AS P                 |  |     |
|                          |             | MAXIMUM                   | 28.0                     | 1.600                    | 0.440                    | 16.700                      | 5.200                     | 0.003 | 8.14                      | 0.133                        | 0.510  | 108 |
|                          |             | ARITH MEAN                | 15.0                     | 0.290                    | 0.084                    | 3.700                       | 1.551                     | 0.003 | 7.91                      | 0.036                        | 0.192  | 56  |
|                          |             | GEOM MEAN                 | 9.1                      | 0.123                    |                          | 1.230                       | 1.226                     |       | 7.91                      | 0.026                        | 0.154  |     |
|                          |             | MINIMUM                   | 0.1                      | 0.004                    | 0.010                    | 0.100                       | 0.450                     | 0.003 | 7.62                      | 0.007                        | 0.064  | 4   |
|                          |             | STD DEV (GEOM *)          | 9.0                      | 0.472                    |                          | 5.253                       | 1.366                     |       | 0.20                      | 0.036                        | 0.147  |     |
|                          |             | # SAMP IN STATISTICS      | 10                       | 10                       | 9                        | 10                          | 10                        | 1     | 10                        | 10                           | 10   | 2   |
|                          |             | % SAMP (EXCLUDED)         |                          |                          | 10                       |                             |                           | 50    |                           |                              |  | 71  |

| *=INTERIM TEST-NAME:     |             | RSP                      | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|--------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L                |
| 870128                   | 1210        | 37201                    | 9.2                                       |
| 870323                   | 0910        | 37210                    | 57.8                                      |
| 870427                   | 0925        | 37220                    | 79.9                                      |
| 870519                   | 1315        | 37230                    | 32.5                                      |
| 870624                   | 0930        | 37240                    | 91.3                                      |
| 870728                   | 1335        | 37250                    | 40.2                                      |
| 870818                   | 1050        | 37260                    | 31.6                                      |
| 870921                   | 0930        | 37270                    | 16.5                                      |
| 871028                   | 0830        | 37280                    | 35.1                                      |
| 871124                   | 1350        | 37290                    | 12.0                                      |
|                          |             | MAXIMUM                  | 91.3                                      |
|                          |             | ARITH MEAN               | 40.6                                      |
|                          |             | GEOM MEAN                | 32.0                                      |
|                          |             | MINIMUM                  | 9.2                                       |
|                          |             | STD DEV (GEOM *)         | 27.8                                      |
|                          |             | # SAMP IN STATISTICS     | 10  |
|                          |             | % SAMP (EXCLUDED)        | 2   |

## 1987 WATER QUALITY DATA REGION 1

301

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN CO.ROAD NO.16 ST.THOMAS  
 STATION TYPE: RIVER FLOW GAUGE FED.02GC002

STATION ID: 16-0087-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 46 40.96 LONG: 081 12 50.14 U T M: 17 0482500.0 4735975.0 4 REGION: 01 DISTANCE: 21.564

| *=INTERIM TEST-NAME:     |             | FWSADP                    | FGPROJ                      | ALKT                             | BOD5                     | CLIDUR                    | CLIDUR                     | COD                    | COND25                    | CRUT                      | CUUT                      |
|--------------------------|-------------|---------------------------|-----------------------------|----------------------------------|--------------------------|---------------------------|----------------------------|------------------------|---------------------------|---------------------------|---------------------------|
|                          |             |                           |                             |                                  | BOD<br>5 DAY             | CHLORIDE                  | CHLORIDE                   | CHEM. OX               | CONDUCT.                  | CHROMIUM                  | COPPER                    |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>DEPTH<br>NUMBER | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | TOT.DEM.<br>MG/L<br>AS O | UNF.REAC<br>MG/L<br>AS CL | UNF.REAC<br>MG/L<br>AS CL- | DEMAND<br>MG/L<br>AS O | 25C<br>UMHO/CM<br>AT 25 C | UNF.TOT.<br>MG/L<br>AS CR | UNF.TOT.<br>MG/L<br>AS CU |
| 870128                   | 1150        | 37200                     | 0101                        | 286.0                            | 5.16                     |                           | 45.500                     |                        | 790.0                     | 0.005 <                   | 0.007                     |
| 870323                   | 1335        | 37209                     | 0101                        | 209.0                            | 2.56                     | 33.000                    |                            |                        | 487.0                     | 0.001                     | 0.001                     |
| 870427                   | 0900        | 37219                     | 0101                        | 218.0                            | 4.68                     |                           | 46.500                     |                        | 625.0                     | 0.003                     | 0.001                     |
| 870519                   | 1250        | 37229                     | 0101                        | 168.0                            | 3.74                     |                           | 59.000                     |                        | 605.0                     | 0.001                     | 0.002                     |
| 870629                   | 1350        | 37239                     | 0101                        | 204.0                            | 5.50                     |                           | 36.500                     |                        | 540.0                     | 0.003                     | 0.004                     |
| 870728                   | 1320        | 37249                     | 0101                        | 166.0                            | 3.50                     |                           | 62.000                     | 35.0                   | 525.0                     | 0.001 <                   | 0.001 <W                  |
| 870818                   | 1210        | 37259                     | 0101                        | 161.0                            | 3.56                     |                           | 59.000                     |                        | 540.0                     | 0.004                     | 0.003                     |
| 870921                   | 0220        | 37269                     | 0101                        | 130.7                            | 1.82                     | 69.500                    |                            |                        | 575.0                     | 0.006                     | 0.005                     |
| 871028                   | 0250        | 37279                     | 0101                        | 164.6                            | 3.82                     | 23.300                    |                            |                        | 630.0                     |                           |                           |
| 871124                   | 1000        | 37289                     | 0101                        | 159.0                            | 5.04                     | 124.400                   |                            |                        | 790.0                     | 0.0069                    | 0.0082                    |
| MAXIMUM                  |             | 0.30                      |                             | 286.0                            | 5.50                     | 124.400                   | 62.000                     | 35.0                   | 790.0                     | 0.0069                    | 0.0082                    |
| ARITH MEAN               |             | 0.30                      |                             | 186.6                            | 3.94                     | 62.550                    | 51.417                     | 35.0                   | 610.7                     | 0.004                     | 0.004 <A                  |
| GEOM MEAN                |             |                           |                             | 182.4                            | 3.75                     | 50.777                    | 50.541                     |                        | 603.2                     |                           | 0.003 <A                  |
| MINIMUM                  |             | 0.30                      |                             | 130.7                            | 1.82                     | 23.300                    | 36.500                     | 35.0                   | 487.0                     | 0.001                     | 0.001                     |
| STD DEV (GEOM *)         |             |                           |                             | 44.1                             | 1.18                     | 45.780                    | 10.087                     |                        | 104.8                     |                           | 0.003 <A                  |
| # SAMP IN STATISTICS     |             | 10                        |                             | 10                               | 10                       | 4                         | 6                          | 1                      | 10                        | 7                         | 9                         |
| % SAMP (EXCLUDED)        |             |                           |                             |                                  |                          |                           |                            |                        |                           | 22                        |                           |

| *=INTERIM TEST-NAME:     |             | DO                                 | FCMF                            | FEUT                      | FSMF                            | FWFLOW           | FWSTRC          | FWTEMP                 | NIUT                      | NNHTUR                   | NN02UR                   |
|--------------------------|-------------|------------------------------------|---------------------------------|---------------------------|---------------------------------|------------------|-----------------|------------------------|---------------------------|--------------------------|--------------------------|
|                          |             |                                    | FECAL                           | IRON                      | FECAL                           | STREAM           |                 |                        | NICKEL                    | NH3-N                    | N02-N                    |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | DISOLVED<br>OXYGEN<br>MG/L<br>AS O | COLIFORM<br>MF<br>CNT<br>/100ML | UNF.TOT.<br>MG/L<br>AS FE | STREPCUS<br>MF<br>CNT<br>/100ML | FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.TOT.<br>MG/L<br>AS NI | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N |
| 870128                   | 1150        | 37200                              |                                 | 0.300                     |                                 | 1.150            | 4               | 0.1                    | 0.015<                    | 0.900                    | 0.020                    |
| 870323                   | 1335        | 37209                              | 30AID                           | 0.770                     | 30AID                           | 1.620            | 6               | 9.0                    | 0.003                     | 0.005<                   | 0.020                    |
| 870427                   | 0900        | 37219                              | 10<                             | 1.200                     | 60AID                           | 0.998            | 6               | 14.0                   | 0.004                     | 0.005<                   | 0.080                    |
| 870519                   | 1250        | 37229                              | 260                             | 0.820                     | 268                             | 0.379            | 6               | 16.0                   | 0.006                     | 0.075                    | 0.050                    |
| 870629                   | 1350        | 37239                              | 2100                            | 2.300                     | 2700                            | 0.717            | 6               | 25.0                   | 0.004                     | 0.005<                   | 0.010                    |
| 870728                   | 1320        | 37249                              | 1900                            | 1.500                     | 560                             | 0.132            | 6               | 28.0                   | 0.005                     | 0.005                    | 0.010                    |
| 870818                   | 1210        | 37259                              | 1700                            | 1.300                     | 660                             | 0.149            | 6               | 23.0                   | 0.005                     | 0.010                    | 0.020                    |
| 870921                   | 0220        | 37269                              | 3900                            | 1.700                     | 1140                            | 0.452            | 6               | 20.0                   | 0.008                     | 0.035                    | 0.030                    |
| 871028                   | 0250        | 37279                              | 3700                            |                           | 8600                            | 1.620            | 6               | 8.0                    |                           | 0.005<                   | 0.020                    |
| 871124                   | 1000        | 37289                              | 4100                            | 3.600                     | 11000                           | 0.764            | 6               | 8.0                    | 0.008                     | 0.052                    | 0.020                    |

( C O N T D )

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN CO.ROAD NO.16 ST.THOMAS  
 STATION TYPE: RIVER FLOW GAUGE FED.02GC002

STATION ID: 16-0087-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 46 40.96 LONG: 081 12 50.14

U T M: 17 0482500.0 4735975.0 4

REGION: 01

DISTANCE: 21.564

| *=INTERIM TEST-NAME:     |             | DO                   | FCMF<br>FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FEUT<br>IRON<br>UNF.TOT.<br>MG/L<br>AS FE | FSMF<br>FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NIUT<br>NICKEL<br>UNF.TOT.<br>MG/L<br>AS NI | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NN02UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N |
|--------------------------|-------------|----------------------|--|---|--|--------------------------------------|---------------------------|----------------------------------|---|--|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | AS O   |   |  |                                      |                           |                                  |   |  |   |
|                          |             | MAXIMUM              | 18.0   | 4100                                      | 3.600  | 11000                                | 1.620                     | 28.0                             | 0.008                                       | 0.900  | 0.080                                       |
|                          |             | ARITH MEAN           | 10.9   | 2211                                      | 1.499  | 2780                                 | 0.798                     | 15.1                             | 0.005                                       | 0.179  | 0.028                                       |
|                          |             | GEOM MEAN            | 10.7   |   | 1.226  | 720                                  | 0.595                     | 9.2                              |   |  | 0.023                                       |
|                          |             | MINIMUM              | 9.0  | 30  | 0.300  | 30                                   | 0.132                     | 0.1                              | 0.003                                       | 0.005  | 0.010                                       |
|                          |             | STD DEV (GEOM *)     | 2.6  |   | 0.978  | 8*                                   | 0.546                     | 8.9                              |   |  | 0.021                                       |
|                          |             | # SAMP IN STATISTICS | 10   | 8   | 9  | 9                                    | 10                        | 10                               | 8   | 6  | 10  |
|                          |             | % SAMP (EXCLUDED)    |  | 11  |  |                                      |                           |                                  | 11  | 40   |   |

| *=INTERIM TEST-NAME:     |             | NN03UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | MNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH     | PPO4UR<br>PO4<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|---|---|---|--------|---|--|--|-----------------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                            |   |   |        |   |  |  |                                   |   |
| 870128                   | 1150        | 37200                                       | 6.100   | 2.420                                     | 0.030< | 7.93                                      | 0.140  | 0.232  | 10.9                              | 0.013                                     |
| 870323                   | 1335        | 37209                                       | 3.200   | 2.700                                     | 0.006  | 8.50                                      | 0.044  | 0.130  | 4<                                | 25.5                                      |
| 870427                   | 0900        | 37219                                       | 2.200   | 1.080                                     | 0.003< | 8.07                                      | 0.010  | 0.130  | 4<                                | 83.4                                      |
| 870519                   | 1250        | 37229                                       | 0.600   | 1.050                                     | 0.003< | 7.99                                      | 0.025  | 0.185  | 4                                 | 37.5                                      |
| 870629                   | 1350        | 37239                                       | 1.000   | 1.450                                     | 0.004  | 8.10                                      | 0.101  | 0.245  | 16                                | 75.0                                      |
| 870728                   | 1320        | 37249                                       | 0.400   | 1.150                                     | 0.008  | 8.23                                      | 0.159  | 0.310  | 4                                 | 37.6                                      |
| 870818                   | 1210        | 37259                                       | 0.100<  | 1.150                                     | 0.004  | 8.10                                      | 0.065  | 0.255  | 24                                | 53.9                                      |
| 870921                   | 0220        | 37269                                       | 0.700   | 1.050                                     | 0.006  | 7.83                                      | 0.162  | 0.310  | 268                               | 70.6                                      |
| 871028                   | 0250        | 37279                                       | 4.300   | 1.380                                     |        | 7.87                                      | 0.179  | 0.320  | 28C                               | 38.2                                      |
| 871124                   | 1000        | 37289                                       | 2.100   | 1.560                                     | 0.014  | 7.88                                      | 0.096  | 0.368  | 150.8                             | 0.0370                                    |
|                          |             | MAXIMUM                                     | 6.100   | 2.700                                     | 0.014  | 8.50                                      | 0.179  | 0.368  | 268                               | 150.8                                     |
|                          |             | ARITH MEAN                                  | 2.289   | 1.499                                     | 0.007  | 8.05                                      | 0.098  | 0.248  | 57                                | 58.3                                      |
|                          |             | GEOM MEAN                                   |   | 1.415                                     |        | 8.05                                      | 0.073  | 0.235  |                                   | 47.1                                      |
|                          |             | MINIMUM                                     | 0.400   | 1.050                                     | 0.004  | 7.83                                      | 0.010  | 0.130  | 4                                 | 10.9                                      |
|                          |             | STD DEV (GEOM *)                            |   | 0.590                                     |        | 0.20                                      | 0.061  | 0.081  |                                   | 39.8                                      |
|                          |             | # SAMP IN STATISTICS                        | 9   | 10  | 6      | 10  | 10   | 10   | 6                                 | 10  |
|                          |             | % SAMP (EXCLUDED)                           | 10  |   | 33     |   |  |  | 25                                | 11  |

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT CONC ROAD 2 MILES EAST OF SPARTA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC018

STATION ID: 16-0097-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 42 08.51 LONG: 081 02 44.83 U T M: 17 0496250.0 4727550.0 4 REGION: 01 DISTANCE: 5.150

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ   | ALKT     | ASUT     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |        |          |          |          |          |          |          |          |          |          |
| SAMPLE               |      | SAMPLE | PROJECT  | ALK      | ARSENIC  | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
| DATE                 | HR   | DEPTH  | SUB-PROJ | TOTAL    | UNF.TOT. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |
| YYMMDD               | LMT  | NUMBER | CODE     | MG/L     | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
|                      |      | M      |          | AS CAC03 | AS AS    | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
|                      |      |        |          |          |          |          |          |          |          |          | /100ML   |
| 870128               | 0145 | 37205  | 0101     | 263.0    | 0.001<   |          | 39.000   | 745.0    | 0.003<   | 10.5     |          |
| 870323               | 1120 | 37214  | 0101     | 212.0    | 0.001<   | 33.500   |          | 600.0    | 0.001<W  | 12.0     |          |
| 870427               | 1055 | 37224  | 0101     | 204.0    | 0.001<   |          | 32.000   | 580.0    | 0.001<W  | 11.0     | 32       |
| 870519               | 1105 | 37234  | 0101     | 194.0    | 0.001<   |          | 25.000   | 575.0    | 0.001    | 10.5     | 124      |
| 870624               | 1120 | 37244  | 0101     | 218.0    | 0.001    |          | 24.500   | 550.0    | 0.002    | 10.0     | 490      |
| 870728               | 1040 | 37254  | 0101     | 219.0    | 0.001    |          | 20.500   | 520.0    | 0.004    | 11.0     | 110      |
| 870817               | 1320 | 37264  | 0101     | 177.0    | 0.001<   |          | 32.500   | 490.0    | 0.003    | 11.0     | 60       |
| 870921               | 1100 | 37274  | 0101     | 196.2    | 0.001<   | 26.550   |          | 550.0    | 0.002    | 10.5     | 92       |
| 871028               | 1035 | 37284  | 0101     | 186.6    |          | 43.040   |          | 625.0    |          | 10.5     | 1500>    |
| 871124               | 1050 | 37294  | 0101     | 212.8    |          | 54.230   |          | 665.0    |          | 9.0      | 300      |
| MAXIMUM              |      | 0.30   |          | 263.0    | 0.001    | 54.230   | 39.000   | 745.0    | 0.004    | 12.0     | 490      |
| ARITH MEAN           |      | 0.30   |          | 208.3    | 0.001    | 39.330   | 28.917   | 590.0    | 0.002<A  | 10.6     | 173      |
| GEOM MEAN            |      |        |          | 207.1    |          | 37.958   | 28.259   | 586.0    |          | 10.6     |          |
| MINIMUM              |      | 0.30   |          | 177.0    | 0.001    | 26.550   | 20.500   | 490.0    | 0.001    | 9.0      | 32       |
| STD DEV (GEOM *)     |      |        |          | 23.7     |          | 12.015   | 6.778    | 74.1     |          | 0.8      |          |
| # SAMP IN STATISTICS |      | 10     |          | 10       | 2        | 4        | 6        | 10       | 7        | 10       | 7        |
| % SAMP (EXCLUDED)    |      |        |          |          | 75       |          |          |          | 12       |          | 12       |

| *=INTERIM TEST-NAME: |      | FEUT     | FSMF     | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     |
|----------------------|------|----------|----------|--------|--------|--------|----------|----------|----------|----------|----------|
|                      |      |          |          |        |        |        |          |          |          |          |          |
|                      |      | IRON     | FECAL    | STREAM |        |        | NH3-N    | NO2-N    | NO3-N    | K'DAHL N | LEAD     |
|                      |      | UNF.TOT. | STREPCUS | FLOW   |        |        | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |
|                      |      | MG/L     | MF       | M3     | STREAM | WATER  | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |
|                      |      | AS FE    | /100ML   | /S     | COND.  | TEMP   | AS N     | AS N     | AS N     | AS N     | AS PB    |
|                      |      |          |          |        |        | DEG.C  |          |          |          |          |          |
| 870128               | 0145 | 37205    |          | 1.090  | 4      | 0.1    | 0.325    | 0.030    | 5.100    | 0.840    | 0.030<   |
| 870323               | 1120 | 37214    |          | 1.610  | 6      | 8.0    | 0.085    | 0.040    | 3.200    | 0.890    | 0.005    |
| 870427               | 1055 | 37224    | 48       | 1.110  | 6      | 13.0   | 0.005<   | 0.040    | 2.300    | 0.690    | 0.003    |
| 870519               | 1105 | 37234    | 60       | 0.534  | 6      | 16.0   | 0.005<   | 0.030    | 0.700    | 1.140    | 0.003<   |
| 870624               | 1120 | 37244    | 190      | 0.342  | 6      | 25.0   | 0.005<   | 0.020    | 0.500    | 0.740    | 0.003<   |
| 870728               | 1040 | 37254    | 70AID    | 0.015  | 6      | 28.0   | 0.020    | 0.010<   | 0.100    | 1.200    | 0.003<   |
| 870817               | 1320 | 37264    | 80       | 0.106  | 6      | 22.0   | 0.030    | 0.020    | 0.200    | 1.050    | 0.003    |
| 870921               | 1100 | 37274    | 108      | 0.285  | 6      | 19.0   | 0.005<   | 0.010    | 0.400    | 0.640    | 0.003    |
| 871028               | 1035 | 37284    | 7200     | 1.540  | 6      | 8.0    | 0.005<   | 0.030    | 3.100    | 1.020    |          |
| 871124               | 1050 | 37294    | 220      | 0.450  | 6      | 8.0    | 0.001<   | 0.010<   | 0.700    | 0.500    |          |

( C O N T D )

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT CONC ROAD 2 MILES EAST OF SPARTA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC018

STATION ID: 16-0097-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 42 08.51 LONG: 081 02 44.83

U T M: 17 0496250.0 4727550.0 4

REGION: 01

DISTANCE: 5.150

| *=-INTERIM TEST-NAME:    |             | FEUT                 | FSMF<br>FECAL<br>STREPCUS         | FWFLOW<br>STREAM<br>FLOW | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | NNHTUR<br>NH3-N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | NNO2UR<br>NO2-N<br>UNF.REAC<br>MG/L<br>AS N | NNO3UR<br>NO3-N<br>UNF.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB |
|--------------------------|-------------|----------------------|-----------------------------------|--------------------------|---------------------------|----------------------------------|--|---|---|---|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | IRON<br>UNF.TOT.<br>MG/L<br>AS FE | CNT<br>/100ML            | M3<br>/S                  |                                  |  |   |   |   |   |
|                          |             | MAXIMUM              | 1.400                             | 7200                     | 1.610                     | 28.0                             | 0.325  | 0.040                                       | 5.100                                       | 1.200   | 0.005                                     |
|                          |             | ARITH MEAN           | 0.686                             | 997                      | 0.708                     | 14.7                             | 0.115  | 0.027                                       | 1.630                                       | 0.871   | 0.003                                     |
|                          |             | GEOM MEAN            | 0.549                             | 164                      | 0.403                     | 8.9                              |  |   | 0.863                                       | 0.842   |   |
|                          |             | MINIMUM              | 0.220                             | 48                       | 0.015                     | 0.1                              | 0.020  | 0.010                                       | 0.100                                       | 0.500   | 0.003                                     |
|                          |             | STD DEV (GEOM *)     | 0.468                             | 5*                       | 0.584                     | 8.9                              |  |   | 1.700                                       | 0.230   |   |
|                          |             | # SAMP IN STATISTICS | 7                                 | 8                        | 10                        | 10                               | 4  | 8   | 10  | 10  | 4   |
|                          |             | % SAMP (EXCLUDED)    |                                   |                          |                           |                                  | 60   | 20  |   |   | 50  |

| *=-INTERIM TEST-NAME:    |             | PH                   | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | RSF<br>RESIDUE<br>FILTERED<br>MG/L | RSP<br>RESIDUE<br>PARTIC.<br>MG/L | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|----------------------|---|--|--|------------------------------------|-----------------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER     | PH  |  |  |                                    |                                   |   |
| 870128                   | 0145        | 37205                | 8.01                                      | 0.070  | 0.570  | 434.4                              | 6.6                               | 0.004                                     |
| 870323                   | 1120        | 37214                | 8.48                                      | 0.047  | 0.126  | 392.20                             | 13.8                              | 0.001<W                                   |
| 870427                   | 1055        | 37224                | 8.16                                      | 0.005  | 0.038  | 4< 346.5                           | 7.5                               | 0.001<                                    |
| 870519                   | 1105        | 37234                | 8.38                                      | 0.001  | 0.112  | 4< 361.3                           | 100.7                             | 0.003                                     |
| 870624                   | 1120        | 37244                | 8.19                                      | 0.044  | 0.100  | 4< 378.1                           | 45.9                              | 0.010                                     |
| 870728                   | 1040        | 37254                | 8.22                                      | 0.007  | 0.300  | 4< 356.6                           | 47.4                              | 0.006                                     |
| 870817                   | 1320        | 37264                | 8.15                                      | 0.016  | 0.170  | 4 348.9                            | 75.1                              | 0.006                                     |
| 870921                   | 1100        | 37274                | 8.11                                      | 0.026  | 0.088  | 4 352.2                            | 45.8                              | 0.005                                     |
| 871028                   | 1035        | 37284                | 7.96                                      | 0.075  | 0.184  | 32C 417.0                          | 57.0                              |   |
| 871124                   | 1050        | 37294                | 7.78                                      | 0.009  | 0.056  | 430.20                             | 15.8                              |   |
|                          |             | MAXIMUM              | 8.48                                      | 0.075  | 0.570  | 32 434.4                           | 100.7                             | 0.010                                     |
|                          |             | ARITH MEAN           | 8.14                                      | 0.030  | 0.174  | 13 381.7                           | 41.6                              | 0.005<A                                   |
|                          |             | GEOM MEAN            | 8.14                                      | 0.016  | 0.130  |                                    | 29.3                              |   |
|                          |             | MINIMUM              | 7.78                                      | 0.001  | 0.038  | 4 346.5                            | 6.6                               | 0.001                                     |
|                          |             | STD DEV (GEOM *)     | 0.20                                      | 0.027  | 0.158  |                                    | 31.2                              |   |
|                          |             | # SAMP IN STATISTICS | 10  | 10   | 10   | 3 10                               | 10                                | 7   |
|                          |             | % SAMP (EXCLUDED)    |   |  |  | 57                                 |                                   | 12  |



B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT HIGHWAY NO 3 WEST OF ORWELL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC110

STATION ID: 16-0097-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 46 31.92 LONG: 081 02 35.12 U T M: 17 0496475.0 4735675.0 4 REGION: 01 DISTANCE: 24.944

| *=INTERIM TEST-NAME: |      | FWSADP | FGPROJ | ALKT     | BOD5         | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|--------|--------|----------|--------------|----------|----------|----------|----------|----------|----------|
|                      |      |        |        |          | BOD<br>5 DAY | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | FECAL    |
|                      |      |        |        | ALK      | TOT.DEM.     | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | COLIFORM |
| SAMPLE               | DATE | SAMPLE | DEPTH  | TOTAL    | MG/L         | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | MF       |
| YYMMDD               | HOUR | NUMBER | M      | AS CAC03 | AS O         | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | CNT      |
|                      | LMT  |        |        |          |              |          |          |          |          |          | /100ML   |
| 870128               | 1255 | 37203  | 0.30   | 0101     |              |          |          |          | 0.002    |          |          |
| 870323               | 1000 | 37212  | 0.30   | 0101     | 226.0        | 5.25     | 44.500   | 705.0    | 0.002    | 9.0      | 30AID    |
| 870427               | 1010 | 37222  | 0.30   | 0101     | 199.0        | 2.37     |          | 635.0    | 0.004    | 10.0     | 600>     |
| 870519               | 1015 | 37232  | 0.30   | 0101     | 221.0        | 5.92     |          | 675.0    | 0.003    | 9.5      | 400      |
| 870624               | 1030 | 37242  | 0.30   | 0101     | 196.0        | 2.80     |          | 575.0    | 0.004    | 9.5      | 70000>   |
| 870728               | 0930 | 37252  | 0.30   | 0101     | 160.0        | 3.30     |          | 575.0    | 0.004    | 11.0     | 200AID   |
| 870818               | 0920 | 37262  | 0.30   | 0101     | 191.0        | 1.74     |          | 625.0    | 0.003    | 9.0      | 780      |
| 870921               | 1000 | 37272  | 0.30   | 0101     | 177.9        | 1.74     | 36.220   | 590.0    | 0.005    | 10.0     | 180      |
| 871028               | 0925 | 37282  | 0.30   | 0101     | 207.7        | 2.08     | 61.900   | 775.0    |          | 10.5     | 27500>   |
| 871124               | 1000 | 37292  | 0.30   | 0101     | 201.2        | 1.28     | 108.100  | 910.0    | 0.002    | 10.0     | 2100     |
| MAXIMUM              |      | 0.30   |        | 226.0    | 5.92         | 108.100  | 44.500   | 910.0    | 0.005    | 11.0     | 2100     |
| ARITH MEAN           |      | 0.30   |        | 197.8    | 2.94         | 62.680   | 39.500   | 673.9    | 0.003    | 9.8      | 615      |
| GEOM MEAN            |      |        |        | 196.8    | 2.60         | 57.307   | 39.202   | 666.6    | 0.003    | 9.8      |          |
| MINIMUM              |      | 0.30   |        | 160.0    | 1.28         | 36.220   | 33.000   | 575.0    | 0.002    | 9.0      | 30       |
| STD DEV (GEOM *)     |      |        |        | 20.4     | 1.62         | 32.116   | 5.327    | 110.4    | 0.001    | 0.7      |          |
| # SAMP IN STATISTICS |      | 10     |        | 9        | 9            | 4        | 5        | 9        | 9        | 9        | 6        |
| % SAMP (EXCLUDED)    |      |        |        |          |              |          |          |          |          |          | 33       |

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|------|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |      |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      | P04      |
| SAMPLE               | DATE | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      | UNF.REAC |
| YYMMDD               | HOUR | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      | MG/L     |
|                      | LMT  | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   | AS P     |
| 870128               | 1255 | 37203    |        |        |          |          |          |          | 0.003<   |      |          |
| 870323               | 1000 | 37212    | 20AID  | 6      | 8.0      | 0.780    | 0.050    | 3.600    | 0.003<   | 8.34 | 0.195    |
| 870427               | 1010 | 37222    | 268    |        |          |          |          |          | 0.004    |      |          |
| 870519               | 1015 | 37232    | 100    | 6      | 16.0     | 0.005<   | 0.070    | 2.200    | 0.003<   | 8.25 | 0.008    |
| 870624               | 1030 | 37242    | 220    | 6      | 25.0     | 0.005<   | 0.010    | 1.300    | 0.003<   | 8.07 | 0.125    |
| 870728               | 0930 | 37252    | 380    | 6      | 28.0     | 0.015    | 0.010<   | 0.100<   | 0.003<   | 8.14 | 0.130    |
| 870818               | 0920 | 37262    | 130    | 6      | 23.0     | 0.025    | 0.020    | 0.200    | 0.003<   | 7.97 | 0.062    |
| 870921               | 1000 | 37272    | 220    | 6      | 19.0     | 0.035    | 0.040    | 1.100    | 0.005    | 7.95 | 0.067    |
| 871028               | 0925 | 37282    | 25400> | 6      | 8.5      | 0.110    | 0.100    | 9.800    |          | 7.78 | 0.180    |
| 871124               | 1000 | 37292    | 800AID | 6      | 9.0      | 0.015    | 0.010    | 2.000    | 0.004    | 7.77 | 0.069    |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

306

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT HIGHWAY NO 3 WEST OF ORWELL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC110

STATION ID: 16-0097-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 46 31.92 LONG: 081 02 35.12 U T M: 17 0496475.0 4735675.0 4 REGION: 01 DISTANCE: 24.944

| *=INTERIM TEST-NAME: |      | FSMF                 | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH    | PP04UR   |       |
|----------------------|------|----------------------|--------|--------|----------|----------|----------|----------|----------|-------|----------|-------|
|                      |      | FECAL                |        |        | NH3-N    |          |          | K'DAHL N |          |       |          |       |
|                      |      | STREPCUS             |        |        | TOTAL    | N02-N    | N03-N    | TOTAL    | LEAD     |       | P04      |       |
| SAMPLE               |      | MF                   |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |       | UNF.REAC |       |
| DATE                 | HOUR | CNT                  | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |       | MG/L     |       |
| YYMMDD               | LMT  | /100ML               | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH    | AS P     |       |
|                      |      | MAXIMUM              |        | 800    | 28.0     | 0.780    | 0.100    | 9.800    | 2.100    | 0.005 | 8.34     | 0.195 |
|                      |      | ARITH MEAN           |        | 267    | 17.1     | 0.163    | 0.043    | 2.886    | 1.111    | 0.004 | 8.03     | 0.104 |
|                      |      | GEOM MEAN            |        |        | 15.3     |          |          |          | 1.031    |       | 8.03     | 0.078 |
|                      |      | MINIMUM              |        | 20     | 8.0      | 0.015    | 0.010    | 0.200    | 0.630    | 0.004 | 7.77     | 0.008 |
|                      |      | STD DEV (GEOM *)     |        |        | 8.0      |          |          |          | 0.485    |       | 0.21     | 0.064 |
|                      |      | # SAMP IN STATISTICS |        | 8      | 8        | 6        | 7        | 7        | 8        | 3     | 8        | 8     |
|                      |      | % SAMP (EXCLUDED)    |        | 11     |          | 25       | 12       | 12       |          | 66    |          |       |

| *=INTERIM TEST-NAME: |      | PPUT                 | PSAMF    | RSP     | TURB     | ZNUT     |        |
|----------------------|------|----------------------|----------|---------|----------|----------|--------|
|                      |      | PHOSPHOR             | PSEUDOMN |         |          |          |        |
|                      |      | UNF.TOT.             | AERUG.   | RESIDUE |          | ZINC     |        |
| SAMPLE               |      | MG/L                 | MF       | PARTIC. | TURB'ITY | UNF.TOT. |        |
| DATE                 | HOUR | AS P                 | CNT      | MG/L    | FTU      | MG/L     |        |
| YYMMDD               | LMT  |                      | /100ML   |         |          | AS ZN    |        |
| 870128               | 1255 | 37203                |          |         |          | 0.006    |        |
| 870323               | 1000 | 37212                | 0.360    | 4<      | 26.2     | 13.50    | 0.010  |
| 870427               | 1010 | 37222                |          |         |          |          | 0.005  |
| 870519               | 1015 | 37232                | 0.170    | 4<      | 21.4     | 16.40    | 0.001< |
| 870624               | 1030 | 37242                | 0.198    | 4<      | 38.4     | 34.00    | 0.006  |
| 870728               | 0930 | 37252                | 0.255    | 4<      | 19.3     | 23.00    | 0.006  |
| 870818               | 0920 | 37262                | 0.124    | 24      | 8.5      | 14.00    | 0.011  |
| 870921               | 1000 | 37272                | 0.109    | 4       | 12.3     | 19.00    | 0.003  |
| 871028               | 0925 | 37282                | 0.240    | 148C    | 15.3     | 12.20    |        |
| 871124               | 1000 | 37292                | 0.280    | 8       | 26.6     | 28.00    | 0.006  |
|                      |      | MAXIMUM              | 0.360    | 148     | 38.4     | 34.00    | 0.011  |
|                      |      | ARITH MEAN           | 0.217    | 46      | 21.0     | 20.01    | 0.007  |
|                      |      | GEOM MEAN            | 0.202    |         | 19.1     | 18.82    |        |
|                      |      | MINIMUM              | 0.109    | 4       | 8.5      | 12.20    | 0.003  |
|                      |      | STD DEV (GEOM *)     | 0.084    |         | 9.5      | 7.76     |        |
|                      |      | # SAMP IN STATISTICS | 8        | 4       | 8        | 8        | 8      |
|                      |      | % SAMP (EXCLUDED)    |          | 50      |          |          | 11     |

## 1987 WATER QUALITY DATA REGION 1

307

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD NO 40 GLENCOLIN  
 STATION TYPE: RIVER

STATION ID: 16-0097-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 47 34.29 LONG: 080 55 53.50

U T M: 17 0505600.0 4737600.0 4

REGION: 01

DISTANCE: 34.761

| *=INTERIM TEST-NAME: |             | FWSADP           | FGPROJ     | ALKT                        | BOD5                      | CLIDUR                    | CLIDUR                     | COND25                    | CUUT                      | DO                     | FCHF                            |
|----------------------|-------------|------------------|------------|-----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|------------------------|---------------------------------|
|                      |             |                  |            |                             | BOD<br>5 DAY              | CHLORIDE                  | CHLORIDE                   | CONDUCT.                  | COPPER                    | DISOLVED               | FECAL                           |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER | DEPTH<br>M | PROJECT<br>SUB-PROJ<br>CODE | TOTAL<br>MG/L<br>AS CAC03 | UNF.REAC<br>MG/L<br>AS CL | UNF.REAC<br>MG/L<br>AS CL- | 25C<br>UMHO/CM<br>AT 25 C | UNF.TOT.<br>MG/L<br>AS CU | OXYGEN<br>MG/L<br>AS O | COLIFORM<br>MF<br>CNT<br>/100ML |
| 870128               | 1255        | 37204            | 0.30       | 0101                        | 256.0                     | 1.62                      | 45.500                     | 780.0                     | 0.001                     | 9.0                    |                                 |
| 870323               | 1025        | 37213            | 0.30       | 0101                        | 231.0                     | 1.11                      | 25.500                     | 635.0                     | 0.001                     | 8.0                    |                                 |
| 870427               | 1040        | 37223            | 0.30       | 0101                        | 225.0                     | 1.46                      | 26.500                     | 640.0                     | 0.004                     | 9.0                    | 600>                            |
| 870519               | 1015        | 37233            | 0.30       | 0101                        | 225.0                     | 3.53                      | 29.500                     | 665.0                     | 0.004                     | 8.5                    | 600>                            |
| 870624               | 1050        | 37243            | 0.30       | 0101                        | 219.0                     | 4.60                      | 25.000                     | 615.0                     | 0.005                     | 10.0                   | 980                             |
| 870728               | 0955        | 37253            | 0.30       | 0101                        | 214.0                     | 2.58                      | 13.500                     | 570.0                     | 0.005                     | 9.0                    | 1500>                           |
| 870818               | 0935        | 37263            | 0.30       | 0101                        | 220.0                     | 2.74                      | 20.500                     | 595.0                     | 0.003                     | 9.0                    | 3200                            |
| 870921               | 1020        | 37273            | 0.30       | 0101                        | 213.2                     | 2.52                      | 25.310                     | 605.0                     | 0.005                     | 9.0                    | 1400                            |
| 871028               | 1010        | 37283            | 0.30       | 0101                        | 199.4                     | 2.06                      | 61.370                     | 785.0                     |                           | 10.5                   | 16000                           |
| 871124               | 1020        | 37293            | 0.30       | 0101                        | 224.0                     | 1.89                      | 64.420                     | 770.0                     | 0.001<                    | 8.5                    | 1500                            |
| MAXIMUM              |             | 0.30             |            |                             | 256.0                     | 4.60                      | 64.420                     | 785.0                     | 0.005                     | 10.5                   | 16000                           |
| ARITH MEAN           |             | 0.30             |            |                             | 222.7                     | 2.41                      | 44.150                     | 666.0                     | 0.003                     | 9.0                    | 4616                            |
| GEOM MEAN            |             |                  |            |                             | 222.2                     | 2.22                      | 39.967                     | 661.6                     |                           | 9.0                    |                                 |
| MINIMUM              |             | 0.30             |            |                             | 199.4                     | 1.11                      | 25.310                     | 570.0                     | 0.001                     | 8.0                    | 980                             |
| STD DEV (GEOM *)     |             |                  |            |                             | 14.6                      | 1.04                      | 21.681                     | 81.8                      |                           | 0.7                    |                                 |
| # SAMP IN STATISTICS |             | 10               |            |                             | 10                        | 10                        | 4                          | 10                        | 8                         | 10                     | 5                               |
| % SAMP (EXCLUDED)    |             |                  |            |                             |                           |                           |                            |                           | 11                        |                        | 37                              |

| *=INTERIM TEST-NAME: |             | FMSF              | FWSTRC              | FWTEMP          | NNHTUR                 | NN02UR                   | NN03UR                   | NNTKUR                   | PBUT                     | PH                        | PP04UR                   |
|----------------------|-------------|-------------------|---------------------|-----------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
|                      |             | FECAL<br>STREPCUS |                     |                 | NH3-N<br>TOTAL         | NO2-N                    | NO3-N                    | K'DAHL N<br>TOTAL        | LEAD                     |                           | P04                      |
| SAMPLE<br>DATE       | HOUR<br>LMT | SAMPLE<br>NUMBER  | MF<br>CNT<br>/100ML | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | UNF.REAC<br>MG/L<br>AS P |
| 870128               | 1255        | 37204             |                     | 4               | 0.1                    | 0.805                    | 0.010                    | 5.700                    | 1.700                    | 0.003<                    | 0.142                    |
| 870323               | 1025        | 37213             |                     | 6               | 8.0                    | 0.005<                   | 0.030                    | 4.600                    | 0.680                    | 0.003<                    | 0.050                    |
| 870427               | 1040        | 37223             | 240                 | 6               | 14.0                   | 0.750                    | 0.130                    | 5.100                    | 3.650                    | 0.003<                    | 0.028                    |
| 870519               | 1015        | 37233             | 268                 | 6               | 16.0                   | 0.035                    | 0.060                    | 2.400                    | 1.120                    | 0.003<                    | 0.014                    |
| 870624               | 1050        | 37243             | 390                 | 6               | 25.0                   | 0.005<                   | 0.010                    | 4.400                    | 1.580                    | 0.003<                    | 0.095                    |
| 870728               | 0955        | 37253             | 1320                | 6               | 28.0                   | 0.080                    | 0.040                    | 0.900                    | 1.180                    | 0.003<                    | 0.066                    |
| 870818               | 0935        | 37263             | 390                 | 6               | 23.0                   | 0.055                    | 0.050                    | 0.500                    | 0.940                    | 0.003<                    | 0.077                    |
| 870921               | 1020        | 37273             | 810                 | 6               | 19.0                   | 0.070                    | 0.050                    | 0.800                    | 0.880                    | 0.003<                    | 0.073                    |
| 871028               | 1010        | 37283             | 66400>              | 6               | 8.0                    | 0.118                    | 0.110                    | 9.600                    | 1.440                    | 7.77                      | 0.185                    |
| 871124               | 1020        | 37293             | 2100                | 6               | 8.0                    | 0.153                    | 0.020                    | 3.900                    | 1.000                    | 0.003<                    | 0.076                    |

( C O N T D )

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD NO 40 GLENCOLIN  
 STATION TYPE: RIVER

STATION ID: 16-0097-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 47 34.29 LONG: 080 55 53.50 U T M: 17 0505600.0 4737600.0 4 REGION: 01 DISTANCE: 34.761

| *=INTERIM TEST-NAME: |      | FSMF     | FWSTRC | FWTEMP | NNHTUR   | NNO2UR   | NNO3UR   | NNTKUR   | PBUT     | PH | PP04UR   |
|----------------------|------|----------|--------|--------|----------|----------|----------|----------|----------|----|----------|
|                      |      | FECAL    |        |        | NH3-N    |          |          | K'DAHL N |          |    |          |
|                      |      | STREPCUS |        |        | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |    | P04      |
| SAMPLE               |      | MF       |        | WATER  | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |    | UNF.REAC |
| DATE                 | HOUR | CNT      | STREAM | TEMP   | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |    | MG/L     |
| YYMMDD               | LMT  | /100ML   | COND.  | DEG.C  | AS N     | AS N     | AS N     | AS N     | AS PB    | PH | AS P     |

|  |                      |      |  |      |       |       |       |       |  |      |       |
|--|----------------------|------|--|------|-------|-------|-------|-------|--|------|-------|
|  | MAXIMUM              | 2100 |  | 28.0 | 0.805 | 0.130 | 9.600 | 3.650 |  | 8.22 | 0.185 |
|  | ARITH MEAN           | 788  |  | 14.9 | 0.258 | 0.051 | 3.790 | 1.417 |  | 7.96 | 0.081 |
|  | GEOM MEAN            |      |  | 9.0  |       | 0.037 | 2.679 | 1.265 |  | 7.96 | 0.065 |
|  | MINIMUM              | 240  |  | 0.1  | 0.035 | 0.010 | 0.500 | 0.680 |  | 7.66 | 0.014 |
|  | STD DEV (GEOM *)     |      |  | 8.9  |       | 0.040 | 2.793 | 0.848 |  | 0.17 | 0.051 |
|  | # SAMP IN STATISTICS | 7    |  | 10   | 8     | 10    | 10    | 10    |  | 10   | 10    |
|  | % SAMP (EXCLUDED)    | 12   |  |      | 20    |       |       |       |  |      |       |

| *=INTERIM TEST-NAME: |      | PPUT     | PSAMF    | RSP     | TURB     | ZNUT     |
|----------------------|------|----------|----------|---------|----------|----------|
|                      |      | PHOSPHOR | PSEUDOMN |         |          |          |
|                      |      | UNF.TOT. | AERUG.   | RESIDUE |          | ZINC     |
| SAMPLE               |      | MG/L     | MF       | PARTIC. | TURB'ITY | UNF.TOT. |
| DATE                 | HOUR | AS P     | CNT      | MG/L    | FTU      | MG/L     |
| YYMMDD               | LMT  | NUMBER   | /100ML   |         |          | AS ZN    |

|        |      |       |       |      |      |       |       |
|--------|------|-------|-------|------|------|-------|-------|
| 870128 | 1255 | 37204 | 0.210 |      | 10.1 | 9.80  | 0.007 |
| 870323 | 1025 | 37213 | 0.130 |      | 10.5 | 10.20 | 0.012 |
| 870427 | 1040 | 37223 | 0.063 | 4<   | 6.7  | 7.40  | 0.008 |
| 870519 | 1015 | 37233 | 0.116 | 4<   | 55.4 | 14.10 | 0.020 |
| 870624 | 1050 | 37243 | 0.200 | 4    | 67.1 | 30.00 | 0.006 |
| 870728 | 0955 | 37253 | 0.242 | 4<   | 53.4 | 22.00 | 0.009 |
| 870818 | 0935 | 37263 | 0.142 | 4<   | 21.0 | 15.00 | 0.002 |
| 870921 | 1020 | 37273 | 0.125 | 4    | 13.4 | 15.90 | 0.005 |
| 871028 | 1010 | 37283 | 0.246 | 140C | 12.9 | 16.80 |       |
| 871124 | 1020 | 37293 | 0.142 | 8    | 19.2 | 10.50 | 0.003 |

|  |                      |       |     |      |       |       |
|--|----------------------|-------|-----|------|-------|-------|
|  | MAXIMUM              | 0.246 | 140 | 67.1 | 30.00 | 0.020 |
|  | ARITH MEAN           | 0.162 | 39  | 27.0 | 15.17 | 0.008 |
|  | GEOM MEAN            | 0.151 |     | 19.9 | 14.00 | 0.007 |
|  | MINIMUM              | 0.063 | 4   | 6.7  | 7.40  | 0.002 |
|  | STD DEV (GEOM *)     | 0.060 |     | 22.5 | 6.72  | 0.005 |
|  | # SAMP IN STATISTICS | 10    | 4   | 10   | 10    | 9     |
|  | % SAMP (EXCLUDED)    |       | 50  |      |       |       |

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: 9TH LINE BAYHAM TOWN LINE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC010

STATION ID: 16-0109-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 47 49.82 LONG: 080 46 55.32 U T M: 17 0517825.0 4738100.0 4 REGION: 01 DISTANCE: 44.095

| *=INTERIM TEST-NAME:     |             | FWSADP                    | FGPROJ                      | ALKT                             | BOD5                     | CLIDUR                     | COND25             | CUUT                      | DO                 | FCMF                           | FSMF                           |
|--------------------------|-------------|---------------------------|-----------------------------|----------------------------------|--------------------------|----------------------------|--------------------|---------------------------|--------------------|--------------------------------|--------------------------------|
|                          |             |                           |                             |                                  | BOD<br>5 DAY             | CHLORIDE                   | CONDUCT.<br>25C    | COPPER                    | DISOLVED<br>OXYGEN | FECAL<br>COLIFORM<br>MF<br>CNT | FECAL<br>STREPCUS<br>MF<br>CNT |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>DEPTH<br>NUMBER | PROJECT<br>SUB-PROJ<br>CODE | ALK<br>TOTAL<br>MG/L<br>AS CAC03 | TOT.DEM.<br>MG/L<br>AS O | UNF.REAC<br>MG/L<br>AS CL- | UMHO/CM<br>AT 25 C | UNF.TOT.<br>MG/L<br>AS CU | MG/L<br>AS O       | /100ML                         | /100ML                         |
| 870415                   | 1105        | 36501                     | 0101                        | 215.0                            | 2.19                     | 23.000                     | 535.0              | 0.004                     | 11.2               | 170                            | 110                            |
| 870521                   | 0955        | 36504                     | 0101                        | 282.0                            | 2.75                     | 25.000                     | 605.0              | 0.003                     |                    | 60                             | 32                             |
| 870618                   | 1100        | 36507                     | 0101                        | 208.0                            | 1.75                     | 28.500                     | 580.0              | 0.004                     |                    | 80                             | 144                            |
| 870831                   | 1250        | 36510                     | 0101                        | 196.0                            | 3.00                     | 28.500                     | 580.0              | 0.006                     |                    | 300                            | 360                            |
| 871105                   | 1200        | 36513                     | 0101                        | 209.2                            | 2.41                     | 30.170                     | 595.0              | 0.001<                    |                    | 36                             | 44                             |
| MAXIMUM                  |             | 0.30                      |                             | 282.0                            | 3.00                     | 30.170                     | 605.0              | 0.006                     | 11.2               | 300                            | 360                            |
| ARITH MEAN               |             | 0.30                      |                             | 222.0                            | 2.42                     | 27.034                     | 579.0              | 0.004                     | 11.2               | 129                            | 138                            |
| GEOM MEAN                |             |                           |                             | 220.1                            | 2.38                     | 26.902                     | 578.5              |                           |                    | 98                             | 96                             |
| MINIMUM                  |             | 0.30                      |                             | 196.0                            | 1.75                     | 23.000                     | 535.0              | 0.003                     | 11.2               | 36                             | 32                             |
| STD DEV (GEOM *)         |             |                           |                             | 34.2                             | 0.49                     | 2.939                      | 26.8               |                           |                    | 2*                             | 3*                             |
| # SAMP IN STATISTICS     |             | 5                         |                             | 5                                | 5                        | 5                          | 5                  | 4                         | 1                  | 5                              | 5                              |
| % SAMP (EXCLUDED)        |             |                           |                             |                                  |                          |                            |                    | 20                        |                    |                                |                                |

| *=INTERIM TEST-NAME:     |             | FWFLOW           | FWSTRC                     | FWTEMP          | NNHTUR                 | NN02UR                   | NN03UR                   | NNTKUR                   | PBUT                     | PH                        | PP04UR                   |
|--------------------------|-------------|------------------|----------------------------|-----------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
|                          |             |                  |                            |                 | NH3-N<br>TOTAL         | NO2-N                    | NO3-N                    | K'DAHL N<br>TOTAL        | LEAD                     |                           | P04                      |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | STREAM<br>FLOW<br>M3<br>/S | STREAM<br>COND. | WATER<br>TEMP<br>DEG.C | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.REAC<br>MG/L<br>AS N | UNF.TOT.<br>MG/L<br>AS PB | UNF.REAC<br>MG/L<br>AS P |
| 870415                   | 1105        | 36501            | 7.020                      | 6               | 11.0                   | 0.060                    | 0.040                    | 4.600                    | 0.820                    | 0.003<                    | 0.110                    |
| 870521                   | 0955        | 36504            | 1.620                      |                 |                        | 0.080                    | 0.290                    | 2.300                    | 0.600                    | 0.003<                    | 0.018                    |
| 870618                   | 1100        | 36507            | 0.989                      |                 |                        | 0.015                    | 0.040                    | 2.900                    | 0.630                    | 0.003<                    | 0.021                    |
| 870831                   | 1250        | 36510            | 1.100                      |                 |                        | 0.035                    | 0.020                    | 2.900                    | 0.850                    | 0.003<                    | 0.040                    |
| 871105                   | 1200        | 36513            | 1.510                      |                 |                        | 0.005<                   | 0.070                    | 2.500                    | 0.500                    | 0.003<                    | 0.022                    |
| MAXIMUM                  |             | 7.020            |                            |                 | 11.0                   | 0.080                    | 0.290                    | 4.600                    | 0.850                    | 8.22                      | 0.110                    |
| ARITH MEAN               |             | 2.448            |                            |                 | 11.0                   | 0.047                    | 0.092                    | 3.040                    | 0.680                    | 8.15                      | 0.042                    |
| GEOM MEAN                |             | 1.796            |                            |                 |                        |                          | 0.058                    | 2.947                    | 0.667                    | 8.15                      | 0.033                    |
| MINIMUM                  |             | 0.989            |                            |                 | 11.0                   | 0.015                    | 0.020                    | 2.300                    | 0.500                    | 8.04                      | 0.018                    |
| STD DEV (GEOM *)         |             | 2.570            |                            |                 |                        |                          | 0.112                    | 0.910                    | 0.150                    | 0.07                      | 0.039                    |
| # SAMP IN STATISTICS     |             | 5                |                            |                 | 1                      | 4                        | 5                        | 5                        | 5                        | 5                         | 5                        |
| % SAMP (EXCLUDED)        |             |                  |                            |                 |                        | 20                       |                          |                          |                          |                           |                          |

( C O N T D )

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: 9TH LINE BAYHAM TOWN LINE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC010

STATION ID: 16-0109-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 47 49.82 LONG: 080 46 55.32

U T M: 17 0517825.0 4738100.0 4

REGION: 01

DISTANCE: 44.095

| *=INTERIM TEST-NAME:     |             | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG. | RSF                         | RSP                        | RST                      | TURB            | ZNUT                              |
|--------------------------|-------------|--------------------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|-----------------|-----------------------------------|
|                          |             | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML         | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L | RESIDUE<br>TOTAL<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                     |                             |                             |                            |                          |                 |                                   |
| 870415                   | 1105        | 36501                                | 0.310                       | 4<                          | 351.3                      | 44.7                     | 396.0           | 26.00                             |
| 870521                   | 0955        | 36504                                | 0.058                       | 4<                          |                            | 18.5                     |                 | 13.20                             |
| 870618                   | 1100        | 36507                                | 0.156                       | 4<                          | 365.8                      | 52.2                     | 418.0           | 37.00                             |
| 870831                   | 1250        | 36510                                | 0.205                       | 4<                          | 388.7                      | 69.3                     | 458.0           | 75.00                             |
| 871105                   | 1200        | 36513                                | 0.056                       | 4<                          | 367.7                      | 8.3                      | 376.0           | 5.40                              |
|                          |             | MAXIMUM                              | 0.310                       |                             | 388.7                      | 69.3                     | 458.0           | 75.00                             |
|                          |             | ARITH MEAN                           | 0.157                       |                             | 368.4                      | 38.6                     | 412.0           | 31.32                             |
|                          |             | GEOM MEAN                            | 0.126                       |                             | 368.1                      | 30.1                     | 410.9           | 21.99                             |
|                          |             | MINIMUM                              | 0.056                       |                             | 351.3                      | 8.3                      | 376.0           | 5.40                              |
|                          |             | STD DEV (GEOM *)                     | 0.107                       |                             | 15.4                       | 24.9                     | 35.1            | 27.24                             |
|                          |             | # SAMP IN STATISTICS                 | 5                           |                             | 4                          | 5                        | 4               | 5                                 |
|                          |             | % SAMP (EXCLUDED)                    |                             |                             |                            |                          |                 |                                   |

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC004

STATION ID: 16-0109-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 40 35.47 LONG: 080 47 35.72

U T M: 17 0516940.0 4724700.0 4

REGION: 01

DISTANCE: 7.081

| *=INTERIM TEST-NAME: |                      | FWSADP | FGPROJ | ALKT     | ASUT     | BOD5     | CCNAUR   | CDUT     | CLIDUR   | COND25   | CRUT     |
|----------------------|----------------------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |                      |        |        |          |          | BOD      | CYANIDE  |          |          |          |          |
|                      |                      |        |        |          |          | 5 DAY    | AVAIL    |          |          |          |          |
|                      |                      |        |        |          |          | TOT.DEM. | UNF.REAC | CADMIUM  | CHLORIDE | CONDUCT. | CHROMIUM |
|                      |                      |        |        |          |          | MG/L     | MG/L     | UNF.TOT. | UNF.REAC | 25C      | UNF.TOT. |
|                      |                      |        |        |          |          | AS O     | AS HCN   | AS CD    | AS CL-   | UMHO/CM  | MG/L     |
|                      |                      |        |        |          |          |          |          |          |          | AT 25 C  | AS CR    |
| SAMPLE               | DATE HOUR            | SAMPLE | DEPTH  | PROJECT  | ALK      | ARSENIC  |          |          |          |          |          |
| DATE HOUR            | YYMMDD LMT           | NUMBER | M      | SUB-PROJ | TOTAL    | UNF.TOT. |          |          |          |          |          |
| YYMMDD LMT           |                      |        |        | CODE     | MG/L     | MG/L     |          |          |          |          |          |
|                      |                      |        |        |          | AS CAC03 | AS AS    |          |          |          |          |          |
| 870415 1040          | 36500                | 0.30   | 0101   | 210.0    | 0.001<   | 2.05     | 0.001<W  | 0.0003<  | 21.000   | 600.0    | 0.002    |
| 870521 0935          | 36503                | 0.30   | 0101   | 273.0    | 0.001<   | 1.34     | 0.001<W  | 0.0003<  | 19.000   | 585.0    | 0.001    |
| 870618 1030          | 36506                | 0.30   | 0101   | 224.0    | 0.001<   | 1.65     | 0.001<W  | 0.0030<  | 19.000   | 545.0    | 0.005<   |
| 870831 1220          | 36509                | 0.30   | 0101   | 200.0    | 0.001    | 0.98     | 0.001<W  | 0.0030<  | 19.500   | 495.0    | 0.010<   |
| 871105 1140          | 36512                | 0.30   | 0101   | 207.7    | 0.001<   | 2.10     | 0.001<W  | 0.0003<  | 20.570   | 555.0    | 0.007    |
|                      | MAXIMUM              | 0.30   |        | 273.0    | 0.001    | 2.10     | 0.001    |          | 21.000   | 600.0    | 0.007    |
|                      | ARITH MEAN           | 0.30   |        | 222.9    | 0.001    | 1.62     | 0.001<A  |          | 19.814   | 556.0    | 0.003    |
|                      | GEOM MEAN            |        |        | 221.5    |          | 1.56     | 0.001<A  |          | 19.797   | 554.8    |          |
|                      | MINIMUM              | 0.30   |        | 200.0    | 0.001    | 0.98     | 0.001    |          | 19.000   | 495.0    | 0.001    |
|                      | STD DEV (GEOM *)     |        |        | 29.3     |          | 0.48     | 0.000<A  |          | 0.922    | 40.7     |          |
|                      | # SAMP IN STATISTICS | 5      |        | 5        | 1        | 5        | 5        |          | 5        | 5        | 3        |
|                      | % SAMP (EXCLUDED)    |        |        |          | 80       |          |          |          |          |          | 40       |

| *=INTERIM TEST-NAME: |                      | CUUT   | DO       | FCMF     | FEUT     | FSMF     | FWSTRC | FWTEMP | HGUT       | NIUT   | NNHTUR   |
|----------------------|----------------------|--------|----------|----------|----------|----------|--------|--------|------------|--------|----------|
|                      |                      |        |          | FECAL    |          | FECAL    |        |        |            |        | NH3-N    |
|                      |                      |        |          | COLIFORM | IRON     | STREPCUS |        |        |            |        | TOTAL    |
|                      |                      |        |          | MF       | UNF.TOT. | MF       |        |        |            |        | UNF.REAC |
|                      |                      |        |          | CNT      | MG/L     | CNT      |        |        |            |        | MG/L     |
|                      |                      |        |          | /100ML   | AS FE    | /100ML   |        |        |            |        | AS N     |
|                      |                      |        |          |          |          |          |        |        |            |        |          |
| SAMPLE               | DATE HOUR            | SAMPLE | COPPER   | DISOLVED |          |          |        |        |            |        |          |
| DATE HOUR            | YYMMDD LMT           | NUMBER | UNF.TOT. | OXYGEN   |          |          |        |        |            |        |          |
| YYMMDD LMT           |                      |        | MG/L     | MG/L     |          |          |        |        |            |        |          |
|                      |                      |        | AS CU    | AS O     |          |          |        |        |            |        |          |
|                      |                      |        |          |          |          |          |        |        |            |        |          |
| 870415 1040          | 36500                | 0.002  | 10.0     | 110      | 1.900    | 220      | 6      | 10.0   | 0.02       | 0.002  | 0.065    |
| 870521 0935          | 36503                | 0.003  |          | 32       | 0.610    | 16       |        |        | 0.01<      | 0.002  | 0.025    |
| 870618 1030          | 36506                | 0.003< |          | 70AID    | 0.930    | 60       |        |        | 0.01       | 0.015< | 0.030    |
| 870831 1220          | 36509                | 0.010< |          | 380      | 1.300    | 470      |        |        | NO DATA SS | 0.010< | 0.010    |
| 871105 1140          | 36512                | 0.002  |          | 4<       | 0.450    | 48       |        |        | 0.06       | 0.003  | 0.005<   |
|                      | MAXIMUM              | 0.003  | 10.0     | 380      | 1.900    | 470      |        | 10.0   | 0.06       | 0.003  | 0.065    |
|                      | ARITH MEAN           | 0.002  | 10.0     | 148      | 1.038    | 163      |        | 10.0   | 0.03       | 0.002  | 0.032    |
|                      | GEOM MEAN            |        |          |          | 0.912    | 86       |        |        |            |        |          |
|                      | MINIMUM              | 0.002  | 10.0     | 32       | 0.450    | 16       |        | 10.0   | 0.01       | 0.002  | 0.010    |
|                      | STD DEV (GEOM *)     |        |          |          | 0.581    | 4*       |        |        |            |        |          |
|                      | # SAMP IN STATISTICS | 3      | 1        | 4        | 5        | 5        |        | 1      | 3          | 3      | 4        |
|                      | % SAMP (EXCLUDED)    | 40     |          | 20       |          |          |        |        | 25         | 40     | 20       |

( C O N T D )

B.O.W./ SITE: BIG OTTER CREEK

STATION ID: 16-0109-005-02

SAMPLE POINT: AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA

STATION TYPE: RIVER FLOW GAUGE FED 02GC004

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE ERIE

TERM STREAM: BIG OTTER CREEK

STORET CODE: 02

003

1390

LAT: 42 40 35.47 LONG: 080 47 35.72

U T M: 17 0516940.0 4724700.0 4

REGION: 01

DISTANCE: 7.081

| *=INTERIM TEST-NAME:     |             | NNO2UR           | NNO3UR                            | NNTKUR<br>K'DAHL N<br>TOTAL       | PBUT<br>LEAD<br>UNF.TOT.<br>MG/L<br>AS PB | PH     | PP04UR<br>P04<br>UNF.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | P1PCBT<br>PCB<br>TOTAL<br>NG/L | RSF<br>RESIDUE<br>FILTERED<br>MG/L |
|--------------------------|-------------|------------------|-----------------------------------|-----------------------------------|---|--------|---|--|--|--------------------------------|------------------------------------|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | N02-N<br>UNF.REAC<br>MG/L<br>AS N | N03-N<br>UNF.REAC<br>MG/L<br>AS N |   |        |   |  |  |                                |                                    |
| 870415                   | 1040        | 36500            | 0.030                             | 4.000                             | 0.840                                     | 0.003< | 8.07                                      | 0.025  | 0.162  | 4<                             | 345.7                              |
| 870521                   | 0935        | 36503            | 0.060                             | 2.000                             | 0.500                                     | 0.007  | 8.18                                      | 0.007  | 0.042  | 4<                             |                                    |
| 870618                   | 1030        | 36506            | 0.020                             | 2.200                             | 0.630                                     | 0.030< | 8.36                                      | 0.001<                                       | 0.110  | 4<                             | 336.7                              |
| 870831                   | 1220        | 36509            | 0.020                             | 2.000                             | 0.350                                     | 0.030< | 8.30                                      | 0.025  | 0.075  | 4<                             | 358.1                              |
| 871105                   | 1140        | 36512            | 0.030                             | 1.600                             | 0.470                                     | 0.003< | 8.24                                      | 0.006  | 0.080  | 4<                             | 344.7                              |
| MAXIMUM                  |             |                  | 0.060                             | 4.000                             | 0.840                                     | 0.007  | 8.36                                      | 0.025  | 0.162  | 20                             | 358.1                              |
| ARITH MEAN               |             |                  | 0.032                             | 2.360                             | 0.558                                     | 0.007  | 8.23                                      | 0.016  | 0.094  | 20<A                           | 346.3                              |
| GEOM MEAN                |             |                  | 0.029                             | 2.239                             | 0.534                                     |        | 8.23                                      |  | 0.085  | 20<A                           | 346.2                              |
| MINIMUM                  |             |                  | 0.020                             | 1.600                             | 0.350                                     | 0.007  | 8.07                                      | 0.006  | 0.042  | 20                             | 336.7                              |
| STD DEV (GEOM *)         |             |                  | 0.016                             | 0.942                             | 0.186                                     |        | 0.11                                      |  | 0.045  | 0<A                            | 8.8                                |
| # SAMP IN STATISTICS     |             |                  | 5                                 | 5                                 | 5   | 1      | 5   | 4  | 5  | 4                              | 4                                  |
| % SAMP (EXCLUDED)        |             |                  |                                   |                                   |   | 80     |   | 20   |  |                                |                                    |

| *=INTERIM TEST-NAME:     |             | RSP              | RST                        | TURB                     | ZNUT<br>ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
|--------------------------|-------------|------------------|----------------------------|--------------------------|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER | RESIDUE<br>PARTIC.<br>MG/L | RESIDUE<br>TOTAL<br>MG/L | TURB'ITY<br>FTU                           |
| 870415                   | 1040        | 36500            | 90.3                       | 436.0                    | 51.00                                     |
| 870521                   | 0935        | 36503            | 16.9                       |                          | 15.40                                     |
| 870618                   | 1030        | 36506            | 43.3                       | 380.0                    | 34.00                                     |
| 870831                   | 1220        | 36509            | 45.9                       | 404.0                    | 53.00                                     |
| 871105                   | 1140        | 36512            | 15.3                       | 360.0                    | 11.70                                     |
| MAXIMUM                  |             |                  | 90.3                       | 436.0                    | 53.00                                     |
| ARITH MEAN               |             |                  | 42.3                       | 395.0                    | 33.02                                     |
| GEOM MEAN                |             |                  | 34.1                       | 394.0                    | 27.78                                     |
| MINIMUM                  |             |                  | 15.3                       | 360.0                    | 11.70                                     |
| STD DEV (GEOM *)         |             |                  | 30.4                       | 32.7                     | 19.29                                     |
| # SAMP IN STATISTICS     |             |                  | 5                          | 4                        | 5   |
| % SAMP (EXCLUDED)        |             |                  |                            |                          | 4   |



B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT NORWICH RD.6 E.OF BASE LINE RD.  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC017

STATION ID: 16-0109-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 57 58.39 LONG: 080 32 33.51 U T M: 17 0537300.0 4756950.0 4 REGION: 01 DISTANCE: 78.373

| *=INTERIM TEST-NAME: |      | FWSADP               | FGPROJ | ALKT     | BOD5     | CLIDUR   | CLIDUR   | COND25   | CUUT     | DO       | FCMF     |
|----------------------|------|----------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |      |                      |        |          | BOD      |          |          |          |          |          | FECAL    |
|                      |      |                      |        |          | 5 DAY    | CHLORIDE | CHLORIDE | CONDUCT. | COPPER   | DISOLVED | COLIFORM |
|                      |      |                      |        |          | TOT.DEM. | UNF.REAC | UNF.REAC | 25C      | UNF.TOT. | OXYGEN   | MF       |
|                      |      |                      |        |          | MG/L     | MG/L     | MG/L     | UMHO/CM  | MG/L     | MG/L     | CNT      |
|                      |      |                      |        |          | AS O     | AS CL    | AS CL-   | AT 25 C  | AS CU    | AS O     | /100ML   |
| SAMPLE               | DATE | TIME                 | SAMPLE | DEPTH    | PROJECT  | ALK      |          |          |          |          |          |
| YYMMDD               | LMT  | NUMBER               | M      | SUB-PROJ | CODE     | MG/L     |          |          |          |          |          |
|                      |      |                      |        |          |          | AS CAC03 |          |          |          |          |          |
| 870415               | 1155 | 36502                | 0.30   | 0101     |          | 207.0    |          |          |          |          |          |
| 870521               | 1035 | 36505                | 0.30   | 0101     |          | 375.0    |          |          |          |          |          |
| 870618               | 1205 | 36508                | 0.30   | 0101     |          | 212.0    |          |          |          |          |          |
| 870831               |      | 36511                | 0.30   | 0101     |          | 195.0    | 0.66     | 13.500   |          |          |          |
| 871105               | 1305 | 36514                | 0.30   | 0101     |          | 213.5    | 2.40     | 15.650   |          |          |          |
|                      |      | MAXIMUM              | 0.30   |          |          | 375.0    | 2.40     | 13.500   |          |          |          |
|                      |      | ARITH MEAN           | 0.30   |          |          | 240.5    | 1.67     | 13.500   |          |          |          |
|                      |      | GEOM MEAN            |        |          |          | 232.9    | 1.50     | 15.849   |          |          |          |
|                      |      | MINIMUM              | 0.30   |          |          | 195.0    | 0.66     | 13.500   |          |          |          |
|                      |      | STD DEV (GEOM *)     |        |          |          | 75.5     | 0.75     | 3.698    |          |          |          |
|                      |      | # SAMP IN STATISTICS | 5      |          |          | 5        | 5        | 1        | 4        | 5        | 2*       |
|                      |      | % SAMP (EXCLUDED)    |        |          |          |          |          |          |          | 25       | 5        |

| *=INTERIM TEST-NAME: |      | FSMF                 | FWFLOW | FWSTRC | FWTEMP | NNHTUR   | NN02UR   | NN03UR   | NNTKUR   | PBUT     | PH   |
|----------------------|------|----------------------|--------|--------|--------|----------|----------|----------|----------|----------|------|
|                      |      | FECAL                |        |        |        | NH3-N    |          |          | K'DAHL N |          |      |
|                      |      | STREPCUS             | STREAM |        | WATER  | TOTAL    | NO2-N    | NO3-N    | TOTAL    | LEAD     |      |
|                      |      | MF                   | FLOW   |        | TEMP   | UNF.REAC | UNF.REAC | UNF.REAC | UNF.REAC | UNF.TOT. |      |
|                      |      | CNT                  | M3     | STREAM | DEG.C  | MG/L     | MG/L     | MG/L     | MG/L     | MG/L     |      |
|                      |      | /100ML               | /S     | COND.  |        | AS N     | AS N     | AS N     | AS N     | AS PB    | PH   |
| SAMPLE               | DATE | TIME                 | SAMPLE |        |        |          |          |          |          |          |      |
| YYMMDD               | LMT  | NUMBER               |        |        |        |          |          |          |          |          |      |
|                      |      |                      |        |        |        |          |          |          |          |          |      |
| 870415               | 1155 | 36502                | 40AID  | 1.950  | 6      | 11.0     | 0.140    | 0.040    | 3.800    | 0.980    | 7.98 |
| 870521               | 1035 | 36505                | 64     | 0.464  |        | 11.0     | 0.010    | 0.100    | 1.900    | 0.620    | 7.92 |
| 870618               | 1205 | 36508                | 116    | 0.216  |        |          | 0.025    | 0.050    | 2.100    | 0.540    | 8.02 |
| 870831               |      | 36511                | 240    | 0.166  |        |          | 0.010    | 0.030    | 2.100    | 0.460    | 8.04 |
| 871105               | 1305 | 36514                | 60     | 0.227  |        |          | 0.018    | 0.040    | 1.300    | 0.500    | 8.06 |
|                      |      | MAXIMUM              | 240    | 1.950  |        | 11.0     | 0.140    | 0.100    | 3.800    | 0.980    | 8.06 |
|                      |      | ARITH MEAN           | 104    | 0.605  |        | 11.0     | 0.041    | 0.052    | 2.240    | 0.620    | 8.00 |
|                      |      | GEOM MEAN            | 84     | 0.374  |        |          | 0.023    | 0.047    | 2.106    | 0.596    | 8.00 |
|                      |      | MINIMUM              | 40     | 0.166  |        | 11.0     | 0.010    | 0.030    | 1.300    | 0.460    | 7.92 |
|                      |      | STD DEV (GEOM *)     | 2*     | 0.761  |        |          | 0.056    | 0.028    | 0.932    | 0.210    | 0.06 |
|                      |      | # SAMP IN STATISTICS | 5      | 5      |        | 1        | 5        | 5        | 5        | 5        | 5    |
|                      |      | % SAMP (EXCLUDED)    |        |        |        |          |          |          |          |          |      |

( C O N T D )

## 1987 WATER QUALITY DATA REGION

314

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT NORWICH RD.6 E.OF BASE LINE RD.  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC017

STATION ID: 16-0109-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 57 58.39 LONG: 080 32 33.51

U T M: 17 0537300.0 4756950.0 4

REGION: 01

DISTANCE: 78.373

| *=INTERIM TEST-NAME:     |             | PP04UR                          | PPUT                                 | PSAMF<br>PSEUDOMN<br>AERUG. | RSF                         | RSP                        | RST                      | TURB            | ZNUT                              |
|--------------------------|-------------|---------------------------------|--------------------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|-----------------|-----------------------------------|
|                          |             | P04<br>UNF.REAC<br>MG/L<br>AS P | PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | MF<br>CNT<br>/100ML         | RESIDUE<br>FILTERED<br>MG/L | RESIDUE<br>PARTIC.<br>MG/L | RESIDUE<br>TOTAL<br>MG/L | TURB'ITY<br>FTU | ZINC<br>UNF.TOT.<br>MG/L<br>AS ZN |
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                |                                      |                             |                             |                            |                          |                 |                                   |
| 870415                   | 1155        | 36502                           | 0.030                                | 0.100                       | 4<                          | 350.3                      | 17.7                     | 368.0           | 16.80                             |
| 870521                   | 1035        | 36505                           | 0.020                                | 0.079                       | 4<                          |                            | 14.7                     |                 | 11.70                             |
| 870618                   | 1205        | 36508                           | 0.018                                | 0.072                       | 4<                          | 327.5                      | 10.5                     | 338.0           | 7.20                              |
| 870831                   |             | 36511                           | 0.023                                | 0.037                       | 4<                          | 355.5                      | 4.5                      | 360.0           | 6.70                              |
| 871105                   | 1305        | 36514                           | 0.014                                | 0.088                       | 4<                          |                            | 5.0<                     | 2510.0          | 4.80                              |
| MAXIMUM                  |             | 0.030                           | 0.100                                |                             | 355.5                       | 17.7                       | 2510.0                   | 16.80           | 0.010                             |
| ARITH MEAN               |             | 0.021                           | 0.075                                |                             | 344.4                       | 11.8                       | 894.0                    | 9.44            | 0.008                             |
| GEOM MEAN                |             | 0.020                           | 0.071                                |                             | 344.2                       |                            | 579.0                    | 8.54            | 0.008                             |
| MINIMUM                  |             | 0.014                           | 0.037                                |                             | 327.5                       | 4.5                        | 338.0                    | 4.80            | 0.007                             |
| STD DEV (GEOM *)         |             | 0.006                           | 0.024                                |                             | 14.9                        |                            | 1077.4                   | 4.83            | 0.001                             |
| # SAMP IN STATISTICS     |             | 5                               | 5                                    |                             | 3                           | 4                          | 4                        | 5               | 4                                 |
| % SAMP (EXCLUDED)        |             |                                 |                                      |                             |                             | 20                         |                          |                 |                                   |

## 315

STORET CODE: 02  
003  
0150

| *INTERIM       |      | TEST-NAME: | FCMF<br>FECAL<br>COLIFORM | FSMF<br>FECAL<br>STREPCUS | FWFLOW<br>STREAM<br>FLOW | FWPH  | FWSTRC | FWTEMP        | IONCAL           | KKUR                     | NGUR                      | NAUR                      |
|----------------|------|------------|---------------------------|---------------------------|--------------------------|-------|--------|---------------|------------------|--------------------------|---------------------------|---------------------------|
| SAMPLE<br>DATE | HR   | SAMPLE     | MF<br>CNT                 | MF<br>CNT                 | M3<br>/S                 | PH    | STREAM | WATER         | ION              | POTASSIM                 | MAGNESIM                  | SODIUM                    |
| YYMMDD         | LMT  | NUMBER     | /100ML                    | /100ML                    | /S                       | FIELD | COND.  | TEMP<br>DEG.C | BALANCE<br>CALC. | UNF.REAC<br>MG/L<br>AS K | FIL.REAC<br>MG/L<br>AS MG | UNF.REAC<br>MG/L<br>AS NA |
| 870107         | 0935 | 35502      | 112<=>                    | 12                        | 0.147                    |       | 8      | 2.8           | NE YET           | 2.890                    | 26.500                    | 24.70                     |
| 870210         | 1005 | 35512      | 372                       | 60                        | 0.083                    |       | 8      | 2.0           | NE YET           | 3.300                    | 28.000                    | 23.80                     |
| 870311         | 1010 | 35522      | 128                       | 920                       | 0.383                    | 8.00  | 8      | 1.4           | NE YET           | 4.510                    | 19.200                    | 16.80                     |
| 870414         | 0940 | 35532      | 190                       | 1350                      | 0.331                    | 8.20  | 8      | 11.0          | NE YET           | 3.360                    | 22.800                    | 19.70                     |
| 870512         | 1525 | 35542      | 360                       | 20<=>                     | 0.085                    | 8.15  | 8      | 18.6          | PORTED           | 3.110                    | 26.700                    | 23.30                     |
| 870617         | 1050 | 35552      | 690                       | 210                       | 0.049                    | 8.20  | 7 5    | 18.0          | PORTED           | 2.810                    | 28.100                    | 22.70                     |
| 870721         | 1505 | 35562      | 200                       | 90                        | 0.087                    | 8.80  | 7      | 26.0          | 7.865            | 3.020                    | 21.300                    | 23.60                     |
| 870819         | 0955 | 35572      | 210                       | 148                       | 0.047                    | 8.00  | 7      | 19.0          | 1.740            | 3.440                    | 27.200                    | 23.80                     |
| 870909         | 1040 | 35582      | 38                        | 104                       | 0.048                    | 7.80  | 8      | 17.4          | 1.007            | 3.120                    | 28.200                    | 24.80                     |
| 871020         | 0925 | 35592      | 94                        | 26                        | 0.067                    | 7.45  | 8      | 10.5          | 0.2807           | 3.610                    | 28.800                    | 22.30                     |
| 871124         | 0925 | 35602      | 28                        | 20                        | 0.099                    | 7.90  | 8      | 5.6           | 14.26            | 3.440                    | 28.500                    | 22.40                     |
| 871222         | 1425 | 35612      | 1840                      | 520                       | 0.488                    | 8.00  | 3      | 2.6           | 1.066            | 4.900                    | 19.500                    | 19.40                     |

( C O N T D )

## 1987 WATER QUALITY DATA REGION 1

316

B.O.W./ SITE: ALDER CREEK  
 SAMPLE POINT: AT FIRST CONC ROAD SOUTH OF NEW DUNDEE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA030

STATION ID: 16-0184-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: GRAND RIVER

STORET CODE: 02  
 003  
 0150

LAT: 43 20 34.91 LONG: 080 31 54.49

U T M: 17 0537950.0 4798800.0 4

REGION: 01

DISTANCE: 179.920

| *=-INTERIM TEST-NAME:    |             | FECAL<br>COLIFORM<br>MF<br>CNT<br>/100ML | FECAL<br>STREPCUS<br>MF<br>CNT<br>/100ML | FWFLOW<br>STREAM<br>FLOW<br>M3<br>/S | FWPH<br>PH<br>FIELD | FWSTRC<br>STREAM<br>COND. | FWTEMP<br>WATER<br>TEMP<br>DEG.C | IONCAL<br>ION<br>BALANCE<br>CALC. | KKUR<br>POTASSIM<br>UNF.REAC<br>MG/L<br>AS K | MGUR<br>MAGNESIM<br>FIL.REAC<br>MG/L<br>AS MG | NAUR<br>SODIUM<br>UNF.REAC<br>MG/L<br>AS NA |
|--------------------------|-------------|--|--|--------------------------------------|---------------------|---------------------------|----------------------------------|-----------------------------------|--|---|---|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                         |  |                                      |                     |                           |                                  |                                   |  |   |   |
|                          |             | MAXIMUM                                  | 1840                                     | 1350                                 | 0.488               | 8.80                      | 26.0                             | 14.26                             | 4.900  | 28.800  | 24.80                                       |
|                          |             | ARITH MEAN                               | 355                                      | 290                                  | 0.159               | 8.05                      | 11.2                             | 4.37                              | 3.459  | 25.400  | 22.27                                       |
|                          |             | GEOM MEAN                                | 188                                      | 103                                  | 0.112               | 8.04                      | 7.6                              | 1.97                              | 3.412  | 25.140  | 22.14                                       |
|                          |             | MINIMUM                                  | 28                                       | 12                                   | 0.047               | 7.45                      | 1.4                              | 0.2807                            | 2.810  | 19.200  | 16.80                                       |
|                          |             | STD DEV (GEOM *)                         | 3*                                       | 5*                                   | 0.152               | 0.34                      | 8.4                              | 5.58                              | 0.633  | 3.643   | 2.43  |
|                          |             | # SAMP IN STATISTICS                     | 12                                       | 12                                   | 12                  | 10                        | 12                               | 6                                 | 12   | 12  | 12  |
|                          |             | % SAMP (EXCLUDED)                        |  |                                      |                     |                           |                                  |                                   |  |   |   |

| *=-INTERIM TEST-NAME:    |             | NNHTFR<br>NH3-N<br>TOTAL<br>FIL.REAC<br>MG/L<br>AS N | NNOTFR<br>NO2+NO3N<br>FIL.REAC<br>MG/L<br>AS N | NNO2FR<br>NO2-N<br>FIL.REAC<br>MG/L<br>AS N | NNTKUR<br>K'DAHL N<br>TOTAL<br>UNF.REAC<br>MG/L<br>AS N | PH<br>PH | PHNOL<br>PHENOLS<br>UNF-REAC<br>UG/L<br>PHENOL | PP04FR<br>P04<br>FIL.REAC<br>MG/L<br>AS P | PPUT<br>PHOSPHOR<br>UNF.TOT.<br>MG/L<br>AS P | PSAMF<br>PSEUDOMN<br>AERUG.<br>MF<br>CNT<br>/100ML | PSAMFB<br>PSEUDOMN<br>AERUG.<br>MF BKGD<br>CNT<br>/100ML |
|--------------------------|-------------|--|--|---|---|----------|--|---|--|--|--|
| SAMPLE<br>DATE<br>YYMMDD | HOUR<br>LMT | SAMPLE<br>NUMBER                                     |  |   |   |          |  |   |  |  |  |
| 870107                   | 0935        | 35502  | 0.042  | 7.050                                       | 0.0315  | 0.490    | 8.15   | 0.2<W                                     | 0.0190                                       | 0.039  | 2<   |
| 870210                   | 1005        | 35512  | 0.468  | 3.910                                       | 0.0585  | 0.570    | 8.36   | 0.6<T                                     | NO DATA CR                                   | 0.015  | 2<   |
| 870311                   | 1010        | 35522  | 0.512  | 6.100                                       | 0.0425  | 1.360    | 8.20   | 0.2<T                                     | 0.2030                                       | 0.260  | 11   |
| 870414                   | 0940        | 35532  | 0.094  | 5.300                                       | 0.0960  | 0.580    | 8.37   | NO DATA NR                                | 0.0315                                       | 0.055  | 4  |
| 870512                   | 1525        | 35542  | 0.178  | 4.430                                       | 0.1180  | 0.880    | 8.32   | 0.2<W                                     | 0.0055                                       | 0.053  | 0  |
| 870617                   | 1050        | 35552  | 0.036  | 3.630                                       | 0.0680  | 0.650    | 8.31   | 1.2                                       | 0.0095                                       | 0.048  | 2  |
| 870721                   | 1505        | 35562  | 0.024  | 1.970                                       | 0.1350  | 0.810    | 8.35   | 0.2<W                                     | 0.0225                                       | 0.072  | 6  |
| 870819                   | 0955        | 35572  | 0.042  | 2.970                                       | 0.0750  | 0.570    | 8.36   | 0.2<W                                     | 0.0205                                       | 0.050  | 12   |
| 870909                   | 1040        | 35582  | 0.034  | 3.650                                       | 0.1060  | 0.530    | 8.23   | 0.2<W                                     | 0.0105                                       | 0.043  | 3  |
| 871020                   | 0925        | 35592  | 0.048  | 5.350                                       | 0.0920  | 0.520    | 8.20   | 0.2<W                                     | 0.0010<T                                     | 0.018  | 7  |
| 871124                   | 0925        | 35602  | 0.062  | 6.330                                       | 0.0380  | 0.550    | 8.23   | 0.2<W                                     | 0.0050                                       | 0.044  | 0  |
| 871222                   | 1425        | 35612  | 0.172  | 5.850                                       | 0.0500  | 0.910    | 8.10   | 0.2<W                                     | 0.1010                                       | 0.156  | 2<   |
|                          |             | MAXIMUM  | 0.512  | 7.050                                       | 0.1350  | 1.360    | 8.37   | 1.2                                       | 0.2030                                       | 0.260  | 12   |
|                          |             | ARITH MEAN   | 0.143  | 4.712                                       | 0.0759  | 0.702    | 8.26   | 0.3<A                                     | 0.0390<A                                     | 0.071  | 5  |
|                          |             | GEOM MEAN  | 0.083  | 4.452                                       | 0.0688  | 0.669    | 8.26   | 0.3<A                                     | 0.0158<A                                     | 0.052  |  |
|                          |             | MINIMUM  | 0.024  | 1.970                                       | 0.0315  | 0.490    | 8.10   | 0.2                                       | 0.0010                                       | 0.015  | 0  |
|                          |             | STD DEV (GEOM *)                                     | 0.170  | 1.527                                       | 0.0336  | 0.253    | 0.09   | 0.3<A                                     | 0.0610<A                                     | 0.069  |  |
|                          |             | # SAMP IN STATISTICS                                 | 12   | 12  | 12  | 12       | 12   | 11  | 11   | 12   | 9  |
|                          |             | % SAMP (EXCLUDED)                                    |  |   |   |          |  |   |  |  | 25   |

( C O N T D )

B.O.W./ SITE: ALDER CREEK  
 SAMPLE POINT: AT FIRST CONC ROAD SOUTH OF NEW DUNDEE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA030

STATION ID: 16-0184-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: GRAND RIVER

STORET CODE: 02  
 003  
 0150

LAT: 43 20 34.91 LONG: 080 31 54.49

U T M: 17 0537950.0 4798800.0 4

REGION: 01

DISTANCE: 179.920

| *=INTERIM TEST-NAME: |      | RSF                 | RSP                | SS04UR<br>SULPHATE |
|----------------------|------|---------------------|--------------------|--------------------|
| SAMPLE<br>DATE       | HOUR | RESIDUE<br>FILTERED | RESIDUE<br>PARTIC. | UNF.REAC<br>MG/L   |
| YYMMDD               | LMT  | SAMPLE<br>NUMBER    | MG/L               | AS SO4             |
| 870107               | 0935 | 35502               | 546.0              | 4.7                |
| 870210               | 1005 | 35512               | 568.0              | 4.6                |
| 870311               | 1010 | 35522               | 419.0              | 9.0                |
| 870414               | 0940 | 35532               | 423.0              | 23.2               |
| 870512               | 1525 | 35542               | 456.4CRO           | 5.6                |
| 870617               | 1050 | 35552               | 499.0CRO           | 4.6                |
| 870721               | 1505 | 35562               | 423.0CRO           | 36.9               |
| 870819               | 0955 | 35572               | 480.0CRO           | 4.0                |
| 870909               | 1040 | 35582               | 486.0CRO           | 3.5                |
| 871020               | 0925 | 35592               | 601.0              | 3.6                |
| 871124               | 0925 | 35602               | 612.0              | 14.2               |
| 871222               | 1425 | 35612               | 417.0CRO           | 26.6               |
| MAXIMUM              |      | 612.0               | 36.9               | 158.00             |
| ARITH MEAN           |      | 494.2               | 11.7               | 105.20             |
| GEOM MEAN            |      | 489.5               | 8.1                | 98.97              |
| MINIMUM              |      | 417.0               | 3.5                | 46.60              |
| STD DEV (GEOM *)     |      | 71.9                | 11.2               | 34.89              |
| # SAMP IN STATISTICS |      | 12                  | 12                 | 12                 |
| % SAMP (EXCLUDED)    |      |                     |                    |                    |

INDEX TO STATION REPORT

318

01002

| RIVER<br>BASIN    | STREAM                | SAMPLE POINT DESCRIPTION                 | DISTANCE | LOCATION<br>CODE | C.O.M.<br>INDEX | PAGE<br>NO. |
|-------------------|-----------------------|--|----------|------------------|-----------------|-------------|
| AUSABLE RIVER     | AUSABLE RIVER         | AT TOWNLINE DNSTR.FROM CENTRALIA BASE    | 120.698  | 08-0022-011-02   | 4 F-01          | 155         |
|                   | AUSABLE RIVER         | AT HIGHWAY 21 GRAND BEND                 | 0.805    | 08-0022-013-02   | 4 H-01          | 159         |
|                   | AUSABLE RIVER         | AT FIRST CONC.WEST OF HIGHWAY 4 EXETER   | 134.377  | 08-0022-016-02   | 4 I-01          | 161         |
|                   | AUSABLE RIVER         | AT MORRISON DAM EAST OF EXETER           | 136.630  | 08-0022-017-02   | 4 J-01          | 163         |
|                   | DECKER CREEK          | NEAR BRICK YARD, THEDFORD                | 10.300   | 08-0022-002-02   | 4 C-01          | 149         |
|                   | HENSALL CREEK         | AT CONCESSION ROAD 2, WEST OF HENSALL    | 139.204  | 08-0022-007-02   | 4 D-01          | 151         |
|                   | LITTLE AUSABLE RIVER  | AT BRIDGE, TWP LINE WEST OF LUCAN        | 109.915  | 08-0022-010-02   | 4 E-01          | 153         |
|                   | PARKHILL CREEK        | RD.BETWEEN LOTS 15&16 WEST OF PARKHILL   | 19.955   | 08-0022-012-02   | 4 G-01          | 157         |
| AUSABLE RIVER CUT | THE CUT AUSABLE RIVER | AT LAMPTON CO.ROAD NO.18                 | 12.069   | 08-0021-002-02   | 4 B-01          | 140         |
| BAYFIELD RIVER    | BAYFIELD RIVER        | FIRST CONCESSION DOWNSTREAM FROM CLINTON | 21.243   | 08-0040-006-02   | 4 K-01          | 165         |
|                   | BAYFIELD RIVER        | AT HURON COUNTY ROAD 31 NORTH OF VARNA   | 14.162   | 08-0040-008-02   | 4 L-01          | 167         |
|                   | BAYFIELD RIVER        | AT FIRST CONCESSION WEST OF SEAFORTH     | 45.382   | 08-0040-009-02   | 4 M-01          | 169         |
|                   | SILVER CREEK          | HWY 8,SEAFORTH                           | 48.430   | 08-0040-011-02   | 4 A-02          | 171         |
| BEAVER RIVER      | BEAVER RIVER          | UPSTREAM FROM GEORGIAN BAY               | 0.161    | 03-0036-001-02   | 2 E-01          | 11          |
|                   | BEAVER RIVER          | AT RAILROAD BRIDGE THORNBURY             | 0.322    | 03-0036-002-02   | 2 F-01          | 13          |
|                   | BEAVER RIVER          | AT GREY COUNTY ROAD NO 2 FEVERSHAM       | 56.969   | 03-0036-006-02   | 2 H-01          | 15          |
|                   | BEAVER RIVER          | AT COUNTY ROAD NO.10 OSPREY TOWNSHIP     | 59.061   | 03-0036-007-02   | 2 I-01          | 16          |
|                   | BEAVER RIVER          | AT COUNTY ROAD NO.8 OSPREY TOWNSHIP      | 58.257   | 03-0036-008-02   | 2 J-01          | 17          |
|                   | BEAVER RIVER          | AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY  | 37.175   | 03-0036-009-02   | 2 K-01          | 18          |
|                   | BOYNE RIVER           | 1ST.BRIDGE DNSTR.FROM HWY.10 FLESHERTON  | 44.417   | 03-0036-005-02   | 2 G-01          | 14          |
| BELLE RIVER       | BELLE RIVER           | AT FIRST ROAD SOUTH OF HIGHWAY 401       | 9.978    | 04-0007-002-02   | 3 C-01          | 24          |
| BIG CREEK         | BIG CREEK             | AT MALDEN TWP.CONC.2-3                   | 7.911    | 16-0001-002-02   | 6 A-01          | 269         |
| BIG OTTER CREEK   | BIG OTTER CREEK       | 9TH LINE BAYHAM TOWN LINE                | 44.095   | 16-0109-004-02   | 6 H-02          | 309         |
|                   | BIG OTTER CREEK       | AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA     | 7.081    | 16-0109-005-02   | 6 I-02          | 311         |

# INDEX TO STATION REPORT

319

01002

| RIVER<br>BASIN      | STREAM              | SAMPLE POINT DESCRIPTION                 | DISTANCE | LOCATION<br>CODE | C.O.M.<br>INDEX | PAGE<br>NO. |
|---------------------|---------------------|--|----------|------------------|-----------------|-------------|
| BIG OTTER CREEK     | BIG OTTER CREEK     | AT NORWICH RD.6 E.OF BASE LINE RD.       | 78.373   | 16-0109-007-02   | 6 J-02          | 313         |
| BIGHEAD RIVER       | BIGHEAD RIVER       | AT CONC ROAD 8 AND 9 SOUTH OF OXMEAD     | 12.713   | 03-0030-002-02   | 2 D-01          | 8           |
| BROCK CREEK         | BROCK CREEK         | AT MIDDLE ST.3MILES S.OF WEST LORNE      | 5.793    | 16-0066-001-02   | 6 I-01          | 285         |
| CANARD RIVER        | CANARD RIVER        | HWY.18 2 MILES SOUTH OF RIVER CANARD     | 0.805    | 10-0002-001-02   | 5 B-01          | 265         |
|                     | CANARD RIVER        | 2 MILES SOUTH OF LUKERVILLE              | 12.070   | 10-0002-002-02   | 5 C-01          | 267         |
| CATFISH CREEK       | CATFISH CREEK       | AT CONC ROAD 2 MILES EAST OF SPARTA      | 5.150    | 16-0097-003-02   | 6 E-02          | 303         |
|                     | CATFISH CREEK       | AT HIGHWAY NO 3 WEST OF ORWELL           | 24.944   | 16-0097-005-02   | 6 F-02          | 305         |
|                     | CATFISH CREEK       | AT ELGIN COUNTY ROAD NO 40 GLENCOLIN     | 34.761   | 16-0097-006-02   | 6 G-02          | 307         |
| CEDAR CREEK         | CEDAR CREEK         | AT HIGHWAY NO. 18                        | 4.828    | 16-0018-002-02   | 6 B-01          | 271         |
| GRAND RIVER         | ALDER CREEK         | AT FIRST CONC ROAD SOUTH OF NEW DUNDEE   | 179.920  | 16-0184-038-02   | 6 K-02          | 315         |
| HICKORY CREEK       | HICKORY CREEK       | AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST | 8.529    | 08-0010-001-02   | 4 A-01          | 138         |
| KETTLE CREEK        | BEAVER CREEK        | AT POND OUTLET COMMUNITY OF UNION        | 7.403    | 16-0087-006-02   | 6 L-01          | 291         |
|                     | DODD CREEK          | FIRST CONCESSION NORTH OF HIGHWAY 3      | 36.370   | 16-0087-004-02   | 6 K-01          | 289         |
|                     | KETTLE CREEK        | FIRST CONCESSION SOUTH WEST OF BELMONT   | 44.417   | 16-0087-007-02   | 6 M-01          | 293         |
|                     | KETTLE CREEK        | FIRST BRIDGE ABOVE PORT STANLEY          | 4.828    | 16-0087-010-02   | 6 A-02          | 295         |
|                     | KETTLE CREEK        | AT ELGIN COUNTY ROAD 45                  | 17.059   | 16-0087-012-02   | 6 B-02          | 297         |
|                     | KETTLE CREEK        | AT COUNTY ROAD NO 31 NORTH OF ST THOMAS  | 29.933   | 16-0087-015-02   | 6 C-02          | 299         |
|                     | KETTLE CREEK        | AT ELGIN CO.ROAD NO.16 ST.THOMAS         | 21.564   | 16-0087-016-02   | 6 D-02          | 301         |
| LITTLE RIVER        | LITTLE RIVER        | AT RIVERSIDE DRIVE WINDSOR               | 0.161    | 04-0001-001-02   | 3 A-01          | 20          |
| LITTLE SAUBLE RIVER | LITTLE SAUBLE RIVER | AT INVERHURON PROVINCIAL PARK MOE SWA1   | 1.931    | 08-0113-001-02   | 4 D-03          | 204         |
| LUCKNOW RIVER       | LUCKNOW RIVER       | HIGHWAY 21, PORT ALBERT                  | 1.287    | 08-0076-001-02   | 4 B-03          | 200         |
|                     | LUCKNOW RIVER       | CANNING STREET, VILLAGE OF LUCKNOW       | 25.749   | 08-0076-002-02   | 4 C-03          | 202         |
| MAITLAND RIVER      | BLYTH BROOK         | AT SIDE ROAD, WEST OF BLYTH              | 51.015   | 08-0056-002-02   | 4 B-02          | 173         |
|                     | BOYLE DRAIN         | DOWNSTREAM FROM HENFRYN                  | 131.802  | 08-0056-020-02   | 4 J-02          | 189         |

## INDEX TO STATION REPORT

320

01002

| RIVER<br>BASIN    | STREAM                | SAMPLE POINT DESCRIPTION                        | DISTANCE | LOCATION<br>CODE | C.O.M.<br>INDEX | PAGE<br>NO. |
|-------------------|-----------------------|---|----------|------------------|-----------------|-------------|
| MAITLAND RIVER    | DRAINAGE DITCH        | AT SIDE RD.3-4 1MI.WEST OF MILVERTON            | 153.688  | 08-0056-010-02   | 4 G-02          | 183         |
|                   | LITTLE MAITLAND RIVER | HWY.23 3 MILES S-W OF PALMERSTON                | 131.963  | 08-0056-006-02   | 4 E-02          | 179         |
|                   | LITTLE MAITLAND RIVER | GREY TWP. CONC II,2.5 KM.EAST OF JAMES-<br>TOWN | 0.000    | 08-0056-035-02   | 4 A-03          | 198         |
|                   | MAITLAND RIVER        | HWY 86 2 MILES N-W OF WINGHAM                   | 77.246   | 08-0056-003-02   | 4 C-02          | 175         |
|                   | MAITLAND RIVER        | ONE MILE NORTH EAST OF WROXETER                 | 100.420  | 08-0056-004-02   | 4 D-02          | 177         |
|                   | MAITLAND RIVER        | AT HIGHWAY 21 GODERICH                          | 2.736    | 08-0056-023-83   | 4 K-02          | 191         |
|                   | MIDDLE MAITLAND RIVER | HAMLET OF TROWBRIDGE                            | 140.975  | 08-0056-009-02   | 4 F-02          | 181         |
|                   | MIDDLE MAITLAND RIVER | HIGHWAY 23, DOWNSTREAM FROM LISTOWEL            | 147.090  | 08-0056-013-02   | 4 H-02          | 185         |
|                   | MIDDLE MAITLAND RIVER | 0.7 MILES OF ETHEL                              | 127.135  | 08-0056-026-02   | 4 L-02          | 194         |
|                   | MIDDLE MAITLAND RIVER | AT COUNTY ROAD NO.16 WEST OF BRUSSELS           | 104.283  | 08-0056-031-02   | 4 M-02          | 196         |
|                   | SOUTH MAITLAND RIVER  | HIGHWAY 4, LONDESBOROUGH                        | 43.451   | 08-0056-015-02   | 4 I-02          | 187         |
| MUDDY CREEK       | MUDDY CREEK           | AT FIRST BRIDGE ABOVE LAKE ERIE                 | 0.322    | 16-0032-001-02   | 6 D-01          | 275         |
| POTTAWATOMI RIVER | POTTAWATOMI RIVER     | AT 14TH STREET BRIDGE OWEN SOUND                | 1.609    | 03-0015-002-02   | 2 A-01          | 1           |
| PUCE RIVER        | PUCE RIVER            | AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE           | 3.380    | 04-0005-003-02   | 3 B-01          | 22          |
| RONDEAU BAY       | COLEMAN DRAIN         | KENT CO.RD.11, 1.8 KILO WEST OF HWY51,          | 1.600    | 16-0051-001-02   | 6 G-01          | 281         |
|                   | INDIAN CREEK          | 1 KM SOUTH OF GUILDS                            | 3.680    | 16-0050-002-02   | 6 F-01          | 279         |
|                   | JOHN CLARK DRAIN      | BISNETT RD,1.1 KILO W.OF KENT CO.RD.11          | 3.360    | 16-0044-001-02   | 6 E-01          | 277         |
| RUSCOM RIVER      | RUSCOM RIVER          | 1 MILE EAST OF EXIT 6 ON HIGHWAY 401            | 9.978    | 04-0010-002-02   | 3 D-01          | 26          |
| SAUBLE RIVER      | ALBEMARBLE BROOK      | AT HIGHWAY NO 6 NEAR MAR MOE SW A3              | 25.105   | 08-0135-004-02   | 4 M-04          | 256         |
|                   | SAUBLE RIVER          | AT BRIDGE FIRST CONCESSION NORTH OF TARA        | 44.899   | 08-0135-002-02   | 4 K-04          | 252         |
|                   | SAUBLE RIVER          | AT SAUBLE FALLS                                 | 3.219    | 08-0135-003-02   | 4 L-04          | 254         |
| SAUGEEN RIVER     | NORTH SAUGEEN RIVER   | AT ELDERSLIE TOWNSHIP ROAD 25 AND 26            | 55.360   | 08-0123-009-02   | 4 K-03          | 219         |
|                   | OTTER CREEK           | AT BRUCE COUNTY ROAD 16 NORTH OF MILD MAY       | 87.868   | 08-0123-010-02   | 4 L-03          | 221         |



# INDEX TO STATION REPORT

321

01002

| RIVER<br>BASIN     | STREAM              | SAMPLE POINT DESCRIPTION                        | DISTANCE | LOCATION<br>CODE | C.O.M. INDEX | PAGE<br>NO. |
|--------------------|---------------------|---|----------|------------------|--------------|-------------|
| SAUGEEN RIVER      | PEARL CREEK         | AT CONCESSION ROAD 12 AND 13 BRANT TWP.         | 56.165   | 08-0123-042-02   | 4 D-04       | 238         |
|                    | PEARL CREEK         | AT 10TH CONC BRANT TOWNSHIP                     | 60.671   | 08-0123-045-02   | 4 G-04       | 244         |
|                    | ROCKY SAUGEEN RIVER | AT CONCESSION ROAD SOUTHWEST OF MARKDALE        | 143.389  | 08-0123-006-02   | 4 I-03       | 214         |
|                    | SAUGEEN RIVER       | YONGE STREET, TOWN OF WALKERTON                 | 76.603   | 08-0123-002-02   | 4 E-03       | 206         |
|                    | SAUGEEN RIVER       | HIGHWAY 4, HANOVER                              | 94.627   | 08-0123-003-02   | 4 F-03       | 208         |
|                    | SAUGEEN RIVER       | HIGHWAY 4, TOWN OF DURHAM                       | 125.847  | 08-0123-005-02   | 4 H-03       | 212         |
|                    | SAUGEEN RIVER       | AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY         | 35.083   | 08-0123-007-02   | 4 J-03       | 217         |
|                    | SAUGEEN RIVER       | DURHAM CONSERVATION AREA                        | 131.158  | 08-0123-015-02   | 4 M-03       | 223         |
|                    | SAUGEEN RIVER       | BRUCE CO ROAD 3, NORTH OF BURGOWNE SR-6         | 11.909   | 08-0123-030-82   | 4 A-04       | 226         |
|                    | SAUGEEN RIVER       | AT CONC.ROAD 2.5 MILES EAST OF CARGILL          | 63.889   | 08-0123-038-02   | 4 B-04       | 234         |
|                    | SAUGEEN RIVER       | AT CONC.ROAD 4 AND 5 SAUGEEN TOWNSHIP           | 27.358   | 08-0123-043-02   | 4 E-04       | 240         |
|                    | SOUTH SAUGEEN RIVER | AT 7TH.AVE SOUTH OF HANOVER                     | 96.880   | 08-0123-046-02   | 4 H-04       | 246         |
|                    | SOUTH SAUGEEN RIVER | PROTON TWP, CONC 8 2.3 KM E OF<br>GREY CO RD 14 | 0.000    | 08-0123-047-02   | 4 I-04       | 248         |
|                    | SOUTH SAUGEEN RIVER | AT EGREMONT-PROTON TOWN, GREY CO                | 0.000    | 08-0123-048-02   | 4 J-04       | 250         |
|                    | TEESWATER RIVER     | DOWNSTREAM FROM DAM, WEST OF TEESWATER          | 99.938   | 08-0123-004-02   | 4 G-03       | 210         |
|                    | TEESWATER RIVER     | AT COUNTY ROAD 1                                | 39.589   | 08-0123-039-02   | 4 C-04       | 236         |
|                    | TEESWATER RIVER     | AT CHEPSTOW                                     | 67.591   | 08-0123-044-02   | 4 F-04       | 242         |
| SIXTEEN MILE CREEK | SIXTEEN MILE CREEK  | AT BACK STREET, RODNEY                          | 8.047    | 16-0063-001-02   | 6 H-01       | 283         |
| STOKES RIVER       | STOKES RIVER        | 2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY          | 1.127    | 08-0143-001-02   | 4 A-05       | 259         |
|                    | STOKES RIVER        | AT HIGHWAY NO.6                                 | 6.276    | 08-0143-002-02   | 4 B-05       | 261         |
| STURGEON RIVER     | STURGEON RIVER      | AT CO.RD.20 4 MILES S-E OF LEAMINGTON           | 3.058    | 16-0027-001-02   | 6 C-01       | 273         |
| SYDENHAM RIVER     | BEAR CREEK          | AT FIRST CONCESSION WEST OF PETROLIA            | 62.441   | 04-0027-004-02   | 3 E-04       | 122         |
|                    | BEAR CREEK          | AT TOWNSHIP LINE N-E OF AVONRY STP              | 34.278   | 04-0027-008-02   | 3 H-04       | 128         |

## INDEX TO STATION REPORT

322

01002

| RIVER<br>BASIN | STREAM              | SAMPLE POINT DESCRIPTION                 | DISTANCE | LOCATION<br>CODE | C.O.M. INDEX | PAGE<br>NO. |
|----------------|---------------------|--|----------|------------------|--------------|-------------|
| SYDENHAM RIVER | BEAR CREEK          | NEXT BRIDGE UPSTR AT FED GAUGE           | 0.000    | 04-0027-014-02   | 3 L-04       | 136         |
|                | BLACK CREEK         | AT COUNTY ROAD 9 WEST OF OIL SPRINGS     | 49.406   | 04-0027-009-02   | 3 I-04       | 130         |
|                | BROWN CREEK         | FIRST CONCESSION SOUTH OF WATFORD        | 117.157  | 04-0027-011-02   | 3 J-04       | 132         |
|                | SYDENHAM RIVER      | AT CONCESSION 18 ABOVE INGLIS FALLS      | 7.403    | 03-0016-003-02   | 2 B-01       | 3           |
|                | SYDENHAM RIVER      | AT HIGHWAY 40 WALLACEBURG                | 4.506    | 04-0027-001-83   | 3 D-04       | 113         |
|                | SYDENHAM RIVER      | AT DOWN MILLS ROAD UPSTREAM OF DRESDEN   | 22.530   | 04-0027-006-02   | 3 F-04       | 124         |
|                | SYDENHAM RIVER      | 1ST.CONC SOUTH OF HWY.22 STRATHROY       | 130.675  | 04-0027-007-02   | 3 G-04       | 126         |
|                | SYDENHAM RIVER      | 1ST.CONC.NORTH OF ALVINSTON              | 97.041   | 04-0027-012-02   | 3 K-04       | 134         |
| TELFER CREEK   | TELFER CREEK        | AT THOMPSON MEMORIAL FOOTBRIDGE LEITH    | 0.483    | 03-0017-002-02   | 2 C-01       | 5           |
| THAMES RIVER   | AVON RIVER          | AT LORNE AVE STRATFORD                   | 278.570  | 04-0013-025-02   | 3 I-01       | 44          |
|                | BIG CREEK           | CONC.10 W.TILBURY TWP.W.OF STRANGFIELD   | 16.737   | 04-0013-033-02   | 3 A-02       | 54          |
|                | BIG SWAMP DRAIN     | AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER | 224.819  | 04-0013-052-02   | 3 B-03       | 83          |
|                | CEDER CREEK         | AT EAST OXFORD TWP.RD.NO.5               | 257.256  | 04-0013-072-02   | 3 A-04       | 107         |
|                | DINGMAN CREEK       | 1ST.CONC.DOWNSTREAM OF LAMBERT           | 196.013  | 04-0013-029-02   | 3 L-01       | 50          |
|                | DINGMAN CREEK       | AT WELLINGTON ROAD                       | 208.726  | 04-0013-037-02   | 3 B-02       | 56          |
|                | FOLDENS CREEK       | AT CONC. RD. NO. 3 WEST OXFORD TWP.      | 250.085  | 04-0013-069-02   | 3 K-03       | 101         |
|                | LOCK DRAIN          | AT CONCESSION ROAD 22 HARMWICH TWP       | 45.382   | 04-0013-031-02   | 3 M-01       | 52          |
|                | MC GREGOR CREEK     | AT HARMWICH-HOWARD TOWNLINE              | 50.693   | 04-0013-049-02   | 3 L-02       | 77          |
|                | MIDDLE THAMES RIVER | AT 2ND.CONC.RD.SOUTH OF THAMESFORD       | 239.786  | 04-0013-041-02   | 3 E-02       | 62          |
|                | NEWBIGGIN CREEK     | AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2   | 116.192  | 04-0013-073-02   | 3 B-04       | 109         |
|                | NORTH THAMES RIVER  | AT PARK STREET BRIDGE, ST MARYS          | 254.752  | 04-0013-015-02   | 3 F-01       | 38          |
|                | NORTH THAMES RIVER  | AT MIDDLESEX COUNTY ROAD 42 LONDON       | 217.416  | 04-0013-027-02   | 3 K-01       | 48          |
|                | NORTH THAMES RIVER  | AT HIGHWAY 7                             | 243.326  | 04-0013-043-02   | 3 G-02       | 66          |
|                | NORTH THAMES RIVER  | AT CONCESSION ROAD 2 SOUTH OF MITCHELL   | 279.374  | 04-0013-044-02   | 3 H-02       | 68          |

# INDEX TO STATION REPORT

323

01002

| RIVER<br>BASIN | STREAM             | SAMPLE POINT DESCRIPTION                | DISTANCE | LOCATION<br>CODE | C.O.M. INDEX | PAGE<br>NO. |
|----------------|--------------------|---|----------|------------------|--------------|-------------|
| THAMES RIVER   | NORTH THAMES RIVER | 1.4 MILES DOWNSTREAM OF ST MARYS        | 251.051  | 04-0013-045-02   | 3 I-02       | 70          |
|                | NORTH THAMES RIVER | AT MIDDLESEX COUNTY ROAD 28             | 229.003  | 04-0013-050-02   | 3 M-02       | 79          |
|                | NORTH THAMES RIVER | 2 MILES UPSTREAM FROM ST.MARY'S         | 258.775  | 04-0013-067-02   | 3 I-03       | 97          |
|                | REYNOLD'S CREEK    | AT C/A AREA SOUTH OF HIGHWAY 401        | 237.533  | 04-0013-068-02   | 3 J-03       | 99          |
|                | REYNOLDS CREEK     | AT HIGHWAY NO.19                        | 254.973  | 04-0013-070-02   | 3 L-03       | 103         |
|                | REYNOLDS CREEK     | AT N.DORCHESTER & S.W.OXFORD TWP.LINE   | 242.293  | 04-0013-071-02   | 3 M-03       | 105         |
|                | SHARON CREEK       | AT SHARON RESERVOIR OUTLET              | 172.517  | 04-0013-065-02   | 3 G-03       | 93          |
|                | THAMES RIVER       | AT BRIDGE COUNTY RD 34 PRAIRIE SIDING   | 14.484   | 04-0013-007-82   | 3 E-01       | 28          |
|                | THAMES RIVER       | AT DUNDAS STREET WOODSTOCK              | 258.132  | 04-0013-016-02   | 3 G-01       | 40          |
|                | THAMES RIVER       | AT FIRST ROAD SOUTH OF INNERKIP         | 272.133  | 04-0013-018-02   | 3 H-01       | 42          |
|                | THAMES RIVER       | AT COUNTY ROAD 48 WOODSTOCK             | 261.028  | 04-0013-038-02   | 3 C-02       | 58          |
|                | THAMES RIVER       | AT PEMBERTON STREET INGERSOLL           | 245.257  | 04-0013-039-02   | 3 D-02       | 60          |
|                | THAMES RIVER       | AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL | 239.786  | 04-0013-042-02   | 3 F-02       | 64          |
|                | THAMES RIVER       | AT COUNTY ROAD 16 KOMOKA                | 184.748  | 04-0013-047-02   | 3 K-02       | 74          |
|                | THAMES RIVER       | AT MIDDLESEX COUNTY ROAD 4              | 215.002  | 04-0013-051-02   | 3 A-03       | 81          |
|                | THAMES RIVER       | AT HIGHWAY 59 SOUTH OF TAVISTOCK        | 298.847  | 04-0013-055-02   | 3 C-03       | 85          |
|                | THAMES RIVER       | AT COUNTY ROAD NO 15 NEAR KENT BRIDGE   | 49.084   | 04-0013-058-02   | 3 D-03       | 87          |
|                | THAMES RIVER       | AT MIDDLESEX CO.ROAD NO.45              | 112.455  | 04-0013-075-02   | 3 C-04       | 111         |
|                | TILBURY CREEK      | 1 MILE SOUTHWEST OF TILBURY STATION     | 7.725    | 04-0013-026-02   | 3 J-01       | 46          |
|                | TILBURY CREEK      | AT HIGHWAY 2 WEST OF TILBURY            | 9.012    | 04-0013-046-02   | 3 J-02       | 72          |
|                | TROUT CREEK        | AT PERTH COUNTY ROAD NO 28 ST.MARY'S    | 258.936  | 04-0013-064-02   | 3 F-03       | 91          |
|                | TROUT CREEK        | AT WEST ZORRA TWP.CONC.ROAD 2-3         | 269.880  | 04-0013-066-02   | 3 H-03       | 95          |
|                | TURKEY CREEK       | AT COUNTY RD 19 SOUTH OF SOUTHWOLD      | 163.344  | 04-0013-061-02   | 3 E-03       | 89          |
| TURKEY CREEK   | TURKEY CREEK       | AT WINDSOR SUBURBAN ROAD 40             | 3.862    | 10-0001-002-02   | 5 A-01       | 263         |

# INDEX TO STATION REPORT

324

01002

| RIVER<br>BASIN   | STREAM       | SAMPLE POINT DESCRIPTION            | DISTANCE | LOCATION<br>CODE | C.O.M. PAGE<br>INDEX NO. |
|------------------|--------------|-------------------------------------|----------|------------------|--------------------------|
| TYRCONNELL CREEK | DUTTON DRAIN | CONC.RD.7 DUNWICH TWP.S-W OF DUTTON | 8.851    | 16-0072-001-02   | 6 J-01 287               |



\*96936000009553\*